White Springs Agricultural Chemicals, Inc. - dba PCS Phosphate, White Springs
Suwannee River/Swift Creek Complex
Facility ID No.: 0470002
Hamilton County

Title V Air Operation Permit Revision

Draft/Proposed Permit

Permit No. 0470002-~~085~~087-AV
Revision of Title V Air Operation Permit No. 0470002-~~080~~085-AV

Permitting ~~& Compliance~~ Authority~~:~~
State of Florida
Department of Environmental Protection
Northeast District
Waste Air Resource Management Program
8800 Baymeadows Way West, Suite 100
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Please Note that Defluorinated Phosphate (DFP) is the new name for Pollyphos, which is a registered trademark of Occidental Chemical and, therefore, can no longer be used by White Springs Agricultural Chemicals.

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FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

NORTHEAST DISTRICT
8800 BAYMEADOWS WAY WEST, SUITE 100
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RICK SCOTT
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LT. GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

PERMITTEE:
White Springs Agricultural Chemicals, Inc.
-dba PCS Phosphate, White Springs
P. O. Box 300
White Springs, Florida 32096

Permit No. 0470002-~~085~~087-AV ~~FINAL~~
Suwannee River/Swift Creek Complex

Facility ID No. 0470002
Title V Air Operation Permit Revision

The purpose of this permit is to incorporate the terms of Air Construction Permit No. 0470002-~~078~~055-AC ~~& Air Construction Permit No. 0470002-084-AC (Time Extension), "D" Sulfuric Acid Drying Tower Acid Cooler replacement~~to satisfy the requirements of Best Available Retrofit Technology (BART) determination pursuant to Rule 62-296.340, Florida Administrative Code F.A.C. into the Title V air operation permit and to make minor administrative changes for the above referenced facility. The existing White Springs Agricultural Chemicals, Inc. - dba PCS Phosphate, White Springs - Suwannee River/Swift Creek Complex is located in Hamilton County at 15843 SE 78th Street, White Springs, Florida. UTM Coordinates are: Zone 17, 328.3 km East and 3368.8 km North; and, Latitude: 30° 26' 27" North and Longitude: 82° 47' 16" West.

The Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-213. The above named permittee is hereby authorized to operate the facility in accordance with the terms and conditions of this permit.

Effective Date: September 25, 2013
Revision Date: DRAFT/PROPOSED
Renewal Application Due Date: December 17, 2016
Expiration Date: July 30, 2017

_____
Richard S. Rachal III, P.G.
Program Administrator
Waste and Air Resource Management Program

RSR/ ~~lm~~bcs

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Subsection A. Facility Description.

This facility processes phosphate rock to produce several products at the Suwannee River/Swift Creek Complex (two plants). The facility consists of one rock grinder, two phosphoric acid plants, two defluorinated phosphate (DFP) plants, one monocal/dical process, two monoammonium/diammonium phosphate (MAP/DAP) plants, one Storage and Shipping building, one screening/shipping building, four sulfuric acid plants, two phosphoric acid filters, three superphosphoric acid plants, one green superphosphoric plant, the Swift Creek Mine (SCM) rock dryer, and one acid clarification plant. The facility also has storage silos associated with the Swift Creek Mine and the DFP plant.

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

Subsection B. Summary of Emissions Units.

Sub-section	E.U. ID No.	Brief Description
A.	001	#2 Phosphate Rock Grinder
B.	003	"A" Defluorinated Phosphate (DFP) Plant
C.	004	"X"-Train (Monocal/Dical process)
D.	008	"Y" Train-#1 MAP/DAP Plant
E.	010	#1 Storage and Shipping Building
F.	015	Granular Product Shipping and Screening Facility
G.	020	"B" Phosphoric Acid Plant
H.	021	"C" Sulfuric Acid Plant
I.	022	"D" Sulfuric Acid Plant
J.	032	"Z"-Train #2 MAP/ DAP
K.	034	South Phosphoric Acid Filter
L.	035	North Phosphoric Acid Filter
M.	036	"B" Superphosphoric Acid Plant
N.	038	"B" Defluorinated Phosphate (DFP) Plant
O.	039	"C" Auxiliary Boiler
P.	040	"D" Auxiliary Boiler
Q.	042	DFP Feed Prep
R.	044	"A" and "B" DFP Coolers
S.	054	Molten Sulfur System
T.	061	Green Superphosphoric Plant
U.	062	Defluorinated Phosphate (DFP) Silos

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V.	064	Swift Creek Mine (SCM) Rock Dryer
W.	065	Swift Creek Mine Silos Mineral Storage and Conveyor System
X.	066	"E" Sulfuric Acid Plant
Y.	067	"F" Sulfuric Acid Plant
Z.	068	"E" Auxiliary Boiler
AA.	069	"D" Phosphoric Acid Plant
BB.	070	"C" and "D" Superphosphoric Acid Plants
CC.	071	Acid Clarification Plant
DD.	072	Molten Sulfur System for "E" & "F" Sulfuric Acid Plants
EE.	---	Common Conditions - Used Oil/Lead
FF.	---	Common Conditions - F.A.C. Test Requirements`
GG.	---	Common Conditions – 40 CFR 63 Subpart AA Monitoring and Testing Requirements
HH.	---	Common Conditions – 40 CFR 63 Subpart BB Monitoring and Testing Requirements
II.	---	Common Conditions – F.A.C. Excess Emissions Rules
JJ	075	Relocatable Concrete Batch Plant
KK	076	15 Emergency Engines

Permitting Note: The following emissions units are permanently shutdown: EU-006 (SRM silos), EU-009 (SRM East Dryer), EU-013 (SRM Rock Grinder), EU-016 (#1 SRCC Phosphate Rock Grinder, EU-017 (SRM West Rock Dryer), and EU-041 (Dical Acid Prep).

Subsection C. Applicable Regulations.

Based on the Title V air operation permit ~~renewal~~revision application received December ~~6, 2011~~30, 2013, this facility **is a major source of hazardous air pollutants (HAP)**. Because this facility operates stationary reciprocating internal combustion engines, it is subject to regulation under 40 CFR 63, Subpart ZZZZ, - National Emissions Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines. The existing facility **is a** PSD major source of air pollutants in accordance with Rule 62-212.400, F.A.C. A summary of applicable regulations is shown in the following table.

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A summary of applicable regulations is shown in the following table.

Regulation	EU No(s).
40 CFR 60, Subpart A, NSPS General Provisions	020, 021, 022, 066, 067, 069, 070
40 CFR 60, Subpart H	021, 022, 066, 067
40 CFR 60, Subpart V	008, 032
40 CFR 60, Subpart T	020, 069
40 CFR 60, Subpart U	036, 070
40 CFR 63, Subpart A, NESHAPS General Provisions	020, 032, 036, 064, 068, 069, 070
40 CFR 63, Subpart AA	020, 036, 064, 069, 070
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40 CFR 63, Subpart ZZZZ & JJJJ	076
40 CFR 63, Subpart DDDDD	039, 040, 068
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Rule 62-296.340 (BART), F.A.C.	001, 003, 004, 008, 010, 015, 021, 022, 032, 038, 042, 044, 054, 062, 064, 065

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The following conditions apply facility-wide to all emission units and activities:

FW1. Appendices. The permittee shall comply with all documents identified in Section IV, Appendices, listed in the Table of Contents. Each document is an enforceable part of this permit unless otherwise indicated. [Rule 62-213.440, F.A.C.]

Emissions and Controls

FW2. Not federally Enforceable. Objectionable Odor Prohibited. No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rule 62-296.320(2) and 62-210.200(Definitions), F.A.C.]

FW3. General Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department.

{Permitting Note: Nothing is deemed necessary and ordered at this time.}

FW4. General Visible Emissions. No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b)1, F.A.C.]

FW5. Unconfined Particulate Matter. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction; alteration; demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:
[Rule 62-296.320(4)(c), F.A.C.]

Annual Reports and Fees

See Appendix RR, Facility-wide Reporting Requirements for additional details.

~~**FW6.**~~ Electronic Annual Operating Report~~. The permittee shall submit an annual report that summarizes the actual operating rates~~ and ~~emissions from this facility. Annual operating reports shall be submitted to the Compliance Authority by April 1st of each year. [Rule 62-210.370(3), F.A.C.]~~

FW7. Title V Annual Emissions ~~Fee~~ Fees. The information required by the Annual Operating Report for Air Pollutant Emitting Facility [Including Title V Source Emissions Fee Calculation] (DEP Form No. 62-210.900(5)) shall be submitted by April 1 of each year, for the previous calendar year, to the Department of Environmental Protection's Division of Air Resource Management. Each Title V source shall submit the annual operating report using the DEP's Electronic Annual Operating Report (EAOR) software, unless the Title V source claims a technical or financial hardship by submitting DEP Form No. 62-210.900(5) to the DEP Division of Air Resource Management instead of using the reporting software. Emissions shall be computed in accordance with the provisions of subsection 62-210.370(2), F.A.C. Each Title V source must pay between January 15 and ~~Fee~~April 1 of each year an annual emissions fee in an amount determined as set forth in subsection 62-213.205(1), F.A.C. The annual ~~Title V~~ fee shall only apply to those regulated pollutants, except carbon monoxide and greenhouse gases, for which an allowable numeric emission-limiting standard is specified in the source's most recent construction permit or operation permit. Upon completing the required EAOR entries, the EAOR Title V Fee Invoice can be printed by the source showing which of the reported emissions ~~fees~~ are subject to the fee and the total Title V Annual Emissions Fee that is due. The

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submission of the annual Title V emissions fee payment is also due (postmarked) by ~~March~~April 1st of each year. ~~The completed form~~ A copy of the system-generated EAOR Title V Annual Emissions Fee Invoice and ~~calculated~~the indicated total fee shall be submitted to: **Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida~~-~~, 32315-3070.** ~~The forms are~~Additional information is available ~~for download~~ by accessing the Title V Annual Emissions Fee On-line Information Center at the following Internet web site: http://www.dep.state.fl.us/air/emission/tvfee.htm. ~~[Rule~~ [Rules 62-210.370(3), 62-210.900 & 62-213.205, F.A.C.~~]~~.; and, §403.0872(11), Florida Statutes (2013)]

{Permitting Note: Resources to help you complete your AOR are available on the electronic AOR (EAOR) website at: http://www.dep.state.fl.us/air/emission/eaor. If you have questions or need assistance after reviewing the information posted on the EAOR website, please contact the Department by phone at (850) 717-9000 or email at eaor@dep.state.fl.us.}

{Permitting Note: The Title V Annual Emissions Fee form (DEP Form No. 62-213.900(1)) has been repealed. ***A separate Annual Emissions Fee form is no longer required to be submitted by March 1st each year.****}*

FW8. Annual Statement of Compliance. The permittee shall submit an annual statement of compliance to the compliance authority at the address shown on the cover of this permit within 60 days after the end of each calendar year during which the Title V permit was effective. [Rules 62-213.440(3)(a)2. & 3. and (3)(b), F.A.C.]

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~~FW9~~

FW8. Prevention of Accidental Releases (Section 112(r) of CAA). If, and when, the facility becomes subject to 112(r), the permittee shall:

a. Submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent ~~to:~~ electronically through EPA's Central Data Exchange system at the following address: https://cdx.epa.gov. Information on electronically submitting risk management plans using the Central Data Exchange system is available at: http://www.epa.gov/osweroe1/content/rmp/index.htm. The RMP Reporting Center can be contacted at: RMP Reporting Center, Post Office Box 10162, Fairfax, VA 22038, Telephone: (703) 227-7650.

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

[40 CFR 68]

~~FW10~~**FW9.** For the Emissions Units subject to monitoring of indicator ranges under MACT, upon successful compliance testing at a new indicator range, the permittee shall operate under the new indicator ranges. Under no circumstance is the NED/DEP authorizing the facility to operate outside of the MACT Rule or out of compliance.

[Rule 62-4.070, F. A. C.]

~~FW11~~**FW10. Compliance Plan CP-4.** EU008 & EU032- Project 0470002-079-AC: Upon completion of construction the emissions units shall be tested to demonstrate initial compliance with the emissions standards for Fluoride and PM/PM_{10}. The initial tests shall be conducted within 60 days after achieving permitted capacity, but not later than 180 days after initial operation of the unit. This facility is subject to the attached Appendix CP-4.

FW11. Compliance Plan CP-5. EUs 001, 003, 038, 042, 044, 062, 064, and 065 - Project 0470002-055-AC: The compliance testing required under Permit No. 0470002-055-AC shall be completed in accordance with the milestones set forth in Appendix CP-5. This facility is subject to the attached Appendix CP-5.

FW12. The facility may choose to submit quarterly monitoring reports to satisfy the requirements for Facility-Wide Reporting Requirements Condition RR4 (semi-annual monitoring reports), provided the facility indicates it on the quarterly report closest to the next due semi-annual monitoring report, and that all requirements of the semi-annual report are included in the quarterly monitoring report.

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The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
001	#2 Phosphate Rock Grinder

#2 Phosphate Rock Grinder is controlled by a Bag Collector to control particulate matter. CAM does not apply for particulate matter.

A.0.a. In accordance with Rule 62-210.300(2)(a)3.c., F.A.C., the operation permit for an emissions unit which has been shut down for five years or more prior to the expiration date of the current operation permit shall be renewed for a maximum period not to exceed ten years from the date of shutdown, even if the emissions unit is not maintained in operational condition, provided the conditions given in sub-subparagraph 62-210.300(2)(a)3.b., F.A.C., are met and the owner or operator demonstrates to the Department that failure to renew the permit would constitute a hardship, which may include economic hardship:

(I) The owner or operator of the emissions unit demonstrates to the Department that the emissions unit may need to be reactivated and used, or that it is the owner's or operator's intent to apply to the Department for a permit to construct a new emissions unit at the facility before the end of the extension period; and

(II) The owner or operator of the emissions unit agrees to and is legally prohibited from providing the allowable emission permitted by the renewed permit as an emissions offset to any other person under Rule 62-212.500, F.A.C.; and

(III) The emissions unit was operating in compliance with all applicable rules as of the time the source was shut down.

***EU001 was last operated in 2005. Therefore, pursuant to Rule 62-210.300(2)(a)3.c., F.A.C., the operation permit for this emissions unit shall be renewed for a maximum period not to exceed ten years from the date of shutdown, even if the emissions unit is not maintained in operational condition, provided the conditions given in Rule 62-210.300(3)(a)3.b.,F.A.C. are met and the owner or operator demonstrates to the Department that failure to renew the permit would constitute a hardship, which may include economic hardship.**

[Rule 62-210.300(2)(a)3.b and (a)3.c.]

A.0.b. Upon demonstration of compliance with Air Construction Permit No. 0470002-055-AC and the milestones identified in Compliance Plan, Appendix CP-5, the permittee shall operate the referenced emissions unit in accordance with the conditions specified below.

[Rule 62-213.440(2), F.A.C.]

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

A.1. Permitted Capacity. The rate shall not exceed the Maximum 12-MRA Hourly Rate = 40 TPH of Phosphate Rock, Dry Basis or Maximum Daily 1-Hour Average Rate = 45 TPH of Phosphate Rock, Dry Basis. 12-MRA (MRA - Monthly Rolling Average) Hourly Rate Maximum shall not be exceeded by the 12-MRA hourly rate calculated by averaging each monthly hourly average with the previous 11 monthly hourly averages.

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~~12-MRA (MRA – Monthly Rolling Average) Hourly Rate Maximum shall not be exceeded by the 12-MRA hourly rate calculated by averaging each monthly hourly average with the previous 11 monthly hourly averages.~~

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Permit No. AO24-20269; Permit No. AO24-166153; Permit No. 0470002-034-AC]

A.2. Hours of Operation. ~~The hours of operation for this~~This emissions unit shall ~~is~~be allowed to operate continuously 8760 hours/year (8784 in any Leap Year).

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Permit No. AO24-166153]

CONTROL EQUIPMENT AND METHODS

A.3. Baghouses. The baghouse control systems shall be operated and maintained to effectively control particulate matter from each of the emissions points identified above for the regulated emissions units

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

EMISSION LIMITATIONS AND STANDARDS

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

{Permitting Note: Unless otherwise specified, the averaging times for these conditions are based on the specified averaging time of the applicable test method.}

~~**A.3.**~~**A.4. Particulate Matter Emissions**. Particulate Matter Emissions shall not exceed ~~22.03 lbs/hr~~0.01 gr/acfm.

[Rules 62-4.070(3) and ~~96.5 TPY.~~

~~[~~62-296.340 (BART), F.A.C., Permit No. ~~AO24-20269; Permit No. AO24-166153~~0470002-055-AC]

A.5. Opacity Standard. ~~**A.4.**~~ Visible Emissions~~. Visible Emissions~~ from each baghouse exhaust shall not exceed 5% opacity as determined by EPA Method 9.

[Rule 62-297.620(4), F.A.C.; Permit No. AO24-20269; Permit No. AO24-166153, Rule 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

A.6. Baghouse Design Specification: Bags/filters in each baghouse control system shall be selected based on a design outlet specification of 0.01 grains per actual cubic feet of exhaust. Compliance shall be demonstrated by maintaining the appropriate records. No stack testing is required.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

TEST METHODS AND PROCEDURES

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

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~~**A.5. Test Methods.**~~
A.7. Particulate Matter Emissions. Particulate Matter Emissions stack test method shall be EPA Method 5 incorporated and adopted by reference in Chapter 62-297, F.A.C., and be performed on request.

[Rule 62-296.320(4)(a), F.A.C.; Rule 62-297.401, F.A.C.; Permit No. AO24-90783; Permit No. AO24-166153]

A.~~6. Test Methods~~8. Visible Emissions. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year~~.~~ (October 1st to September 30th).

[Rule 62-296.~~-~~320(4)(b), F.A.C.; Rule 62-297.401, F.A.C.; Permit No. AO24-20269; 40 CFR 60, Appendix A; Rule 62-204.800, Rule 62-296.340(3)(b)2., Rule 62-297.310(7)(a)4., F.A.C., Permit No. 0470002-055-AC]

RECORDKEEPING

A.9. Baghouses Records: The permittee shall maintain records on site of the vendor data sheets that demonstrate compliance with the baghouse design outlet specification for the bags/filters. To demonstrate initial compliance, the permittee shall provide copies of such records with the corresponding visible emissions test report that demonstrates initial compliance with the opacity standard.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

COMMON CONDITIONS - F.A.C. TEST REQUIREMENTS

A.~~7~~10. This emissions unit is also subject to applicable F.A.C. Test Requirements in Subsection FF.

A.11. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit.

[Rules 62-297.310, 62-4.070(3), and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

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

E.U. ID No.	Brief Description
003	"A" Defluorinated Phosphate (DFP) Plant

"A" DFP Plant with fluoride and particulate matter emissions are controlled by a Cross-Flow Packed Scrubber (13A). CAM does apply to this emission unit for fluoride, particulate matter and sulfur dioxide.

{Permitting note: This emissions unit is regulated under Rule 62-296.320, F.A.C., General Pollutant Emission Limiting Standards; Compliance Assurance Monitoring (CAM), adopted and incorporated by reference in Rule 62-204.800, F.A.C.}

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

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

B.0.a. In accordance with Rule 62-210.300(2)(a)3.c., F.A.C., the operation permit for an emissions unit which has been shut down for five years or more prior to the expiration date of the current operation permit shall be renewed for a maximum period not to exceed ten years from the date of shutdown, even if the emissions unit is not maintained in operational condition, provided the conditions given in sub-subparagraph 62-210.300(2)(a)3.b., F.A.C., are met and the owner or operator demonstrates to the Department that failure to renew the permit would constitute a hardship, which may include economic hardship:

(I) The owner or operator of the emissions unit demonstrates to the Department that the emissions unit may need to be reactivated and used, or that it is the owner's or operator's intent to apply to the Department for a permit to construct a new emissions unit at the facility before the end of the extension period; and

(II) The owner or operator of the emissions unit agrees to and is legally prohibited from providing the allowable emission permitted by the renewed permit as an emissions offset to any other person under Rule 62-212.500, F.A.C.; and

(III) The emissions unit was operating in compliance with all applicable rules as of the time the source was shut down.

***EU003 was last operated in July 2005. Therefore, Permit No. 0470002-~~077~~087-AV extends EU003 expiration date only until July 2015.**

[Rule 62-210.300(2)(a)3.b and (a)3.c.]

Draft/Proposed

B.0.b. Upon demonstration of compliance with Air Construction Permit No. 0470002-055-AC and the milestones identified in Compliance Plan, Appendix CP-5, the permittee shall operate the referenced emissions unit in accordance with the conditions specified below.

[Rule 62-213.440(2), F.A.C.]

B.1. Permitted Capacity. The rate shall not exceed the Maximum 12-MRA Hourly Rate = 8.25 tons of product or Maximum Daily 1-Hour Average Rate = 10 tons of product.

12-MRA (MRA - Monthly Rolling Average) Hourly Rate Maximum shall not be exceeded by the 12-MRA hourly rate calculated by averaging each monthly hourly average with the previous 11 monthly hourly averages.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Permit 0470002-034-AC]

B.2. Methods of Operation. Natural gas shall be the only fuel fired in this emissions unit.

[Rule 62-213.410, F.A.C.~~]~~.; Rule 62-296.340(BART), F.A.C.; Permit No. 0470002-055-AC]

B.3. Hours of Operation. ~~The hours of operation for this~~ This emissions unit ~~shall~~ is allowed to operate continuously 8760 hours/year (8784 in any Leap Year).

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

CONTROL EQUIPMENT AND METHODS

B.4. Wet Scrubbers: The wet scrubber controls shall be operated and maintained to effectively control particulate matter from each of the emissions points identified above for the regulated emissions unit. The wet scrubber controls shall also be operated and maintained to effectively control sulfur dioxide.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

B.5. General Best Operational Practices: Best operational practices to minimize leaks of sulfur dioxide and sulfur trioxide, or other fugitive process emissions shall be adhered to and shall include regular inspections and prompt repair or correction of any leaks or other fugitive emissions.

[Rule 62-296.320, F.A.C.; Permit No. 0470002-055-AC]

EMISSION LIMITATIONS AND STANDARDS

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

{Permitting Note: Unless otherwise specified, the averaging times for these conditions are based on the specified averaging time of the applicable test method.}

B.~~4~~6. Total Fluoride. Total Fluoride emissions shall not exceed 2.5 lbs/hr and 10.5 TPY.

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[Rule 62-296.403(2), F.A.C.; Construction Permit No. AC24-255802]

B.~~5~~7. Particulate Matter. Particulate Matter Emissions shall not exceed ~~14.05~~12.8 lbs/hr ~~and 59.00 TPY.~~as determined by EPA Method 5

[Rule 62-296.320(4)(a), F.A.C.; Construction Permit No. AC24-255802; Rule 62-296.340(BART); Construction Permit No. 0470002-055-AC]

B.~~6~~8. Sulfur Dioxide. Sulfur Dioxide Emissions shall not exceed ~~8.00~~2.0 lbs/hr ~~and 35.04 TPY~~as determined by EPA Method 6/6C.

[Construction Permit No. AC24-255802; Rule 62-296.340(BART); Construction Permit No. 0470002-055-AC]

B.~~7~~9. Visible Emissions. Visible Emissions shall not exceed 40% opacity.

[Rule 62-296.320(4)(b)2., F.A.C.; Construction Permit No. AC24-15084 amended 6/28/88; Construction Permit No. AC24-255802]

Draft/Proposed

B.10. Nitrogen Oxides Emissions. Nitrogen oxides emissions (expressed as NO_2) shall be controlled by the inherent combustion design of the existing unit and the firing of the natural gas as the primary fuel.

[Rule 62-4.070(3), F.A.C.; Permit No. 0470002-055-AC]

COMPLIANCE ASSURANCE MONITORING (CAM) REQUIREMENTS

B.~~8~~11. Compliance Assurance Monitoring (CAM). This emissions unit is subject to the CAM requirements contained in the attached Appendix CAM. Failure to adhere to the monitoring requirements specified does not necessarily indicate an exceedance of a specific emissions limitation; however, it may constitute good reason to require compliance testing pursuant to Rule 62-297.310(7)(b), F.A.C.

[40 CFR 64; and, Rules 62-204.800 and 62-213.440(1)(b)1.a., F.A.C.]

EXCESS EMISSIONS

B.~~9~~12. The Permittee shall meet the Excess Emissions Rules stated in Common Conditions II.1., II.4.- II.6.

TEST METHODS AND PROCEDURES~~TEST METHODS AND PROCEDURES~~

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

B.~~10~~13. Total Fluoride. Fluoride emissions stack test method shall be EPA Method 13A or 13B incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually, once each federal fiscal year.

[Rule 62-296.403(3), F.A.C.; Rule 62-297.401, F.A.C.; Construction Permit No. AC24-255802]

B.~~11~~14. Particulate Matter. Particulate Matter Emissions stack test method shall be EPA Method 5 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year~~.~~ (October 1st – September 30th).

[Rule 62-296.320(4)(a), F.A.C.; Rule 62-297.310(7)(a)4. F.A.C.; Rule 62-297.401, F.A.C.; Construction Permit No. AC24-255802; Permit No. 0470002-055-AC; .; Rule 62-204.800, 40 CFR 60, Appendix A]

B.~~12~~15. Sulfur Dioxide. Sulfur Dioxide Emissions stack test method shall be EPA Method 6/6C incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed ~~every 5 years prior to operation permit renewal.~~annually, once each federal fiscal year (October 1st – September 30th).

~~The 5-year testing frequency is justified by the low emission rate documented in previous emissions tests. The applicant has consistently presented test results that are more than 97% below the applicable standards. Furthermore, in accordance with Rule 62-297.310(7)(a)4.b., F.A.C., an annual Sulfur Dioxide compliance test is required if there is an applicable standard and if the emissions unit has a potential to emit 100 tons per year or greater. The permitted Sulfur Dioxide limit for Emissions Unit Number 003 is 8.00 pounds per hour and 35.04 tons per year.~~

Draft/Proposed

[Rule 62-297.310(7)(a), F.A.C.; Rule 62-297.401(6), F.A.C.; Air Construction Permit No. 0470002-040-AC; Admin. Correction No. 0470002-035-AV]; Permit No. 0470002-055-AC, 40 CFR 60, Appendix A; Rule 62-204.800, F.A.C.]

Draft/Proposed

B.~~13~~16. Visible Emissions. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year.

[Rule 62-296.320(4)(b), F.A.C.; Rule 62-297.310(7)(a)4.a., F.A.C.; Rule 62-297.401, F.A.C.]

B.17. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. Parametric data recorded for the wet scrubber during each test shall be provided with the required test report. As necessary, EPA Methods 1-4 shall be conducted to support the other test methods.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Rule 62-297.310(7)9., F.A.C.; Permit No. 0470002-055-AC]

CONTINUOUS MONITORING

B.18. Wet Scrubber Parameters: For each wet scrubber, the permittee shall install, operate and maintain devices to continuously monitor the scrubber water flow rate, the pressure drop across the scrubber and the fan amperage. Such devices shall be calibrated, fully functional and in operation before conducting the initial compliance tests. In addition, the permittee shall install, operate and maintain devices to continuously monitor the pH level of the caustic solution in the wet scrubbers. The scrubber parameters shall be continuously monitored and recorded. For each operating hour, the 1-hour block average shall be computed from at least four data points evenly spaced over each operating hour. This data shall be used to develop new excursion levels for the scrubber parameters in the CAM plan.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

RECORDKEEPING

B.19. Wet Scrubber Records: The permittee shall maintain records on site of the scrubber water flow rate and the pressure drop across the scrubber. In addition, the following vendor design information shall be maintained on site for each wet scrubber: exhaust flow rate; scrubber water flow rate, scrubber pressure drop, dust inlet loading, dust outlet loading and control efficiency.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

COMMON CONDITIONS - F.A.C. TEST REQUIREMENTS

B.~~14~~20. This emissions unit is also subject to applicable F.A.C. Test Requirements in Subsection FF.

Draft/Proposed

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

E.U. ID No.	Brief Description
004	"X"-Train (Monocal/Dical Process)

"X"-Train (Monocal/Dical Process) with emissions controlled from EP (Emissions Points) by the following control devices: 1) "X"-Train with Venturi and Cyclonic Scrubbers, 2) Dedust bin with Baghouse, 3) Shipping area with Baghouse, 4) Limestone silo with Baghouse, EP04 Unloading of limestone from the existing limestone storage silo back into trucks for other uses, 5) Reclaim bin with Baghouse, and 6) Material Handling with Baghouse. CAM does not apply for particulate matter or fluoride.

Limestone Storage Silo: Operation of the limestone storage silo located in EU No. 004, identified as Emission Point No. 04. The silo receives limestone pneumatically from a tanker truck, stores the limestone and then discharges the limestone to the "X"-Train process. This process also e unloads limestone from the silo into a tanker truck for other uses. Displaced air and PM emissions from the truck loading will be vented back into the silo. Particulate matter (PM) emissions from displaced air in the silo are controlled by a Flex-Kleen Baghouse, Model No. 100-WRB-48, with a stated cloth area of 576 square feet, and a nominal air flow of 2750 actual cubic feet per minute (ACFM).

[Application No. 0470002-072-AC]

{Permitting note: This emissions unit is regulated under Rule 62-296.320, F.A.C., General Pollutant Emission Limiting Standards}

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

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

C.1. Permitted Capacity. The rate shall not exceed the Maximum 12-MRA Hourly Rate = 40 tons of product or Maximum Daily 1-Hour Average Rate = 45 tons of product.

12-MRA (MRA - Monthly Rolling Average) Hourly Rate Maximum shall not be exceeded by the 12-MRA hourly rate calculated by averaging each monthly hourly average with the previous 11 monthly hourly averages.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Construction Permit No. 0470002-034-AC]

Draft/Proposed

C.2. Methods of Operation are as follows:

Mode 1 - Dical (dicalcium phosphate) with 18.5% P is produced.
Mode 2 – Monocal (monocalcium phosphate) with 21.0% P is produced.
Mode 3 - The transfer of Monocal or Dical from railcar to trucks.
~~Fuels fired are natural gas or fuel oil with a maximum sulfur content of 1.50%.~~

Mode 3. This is a non-production Mode involving the transfer of Monocal or Dical from railcars to the Dical silos for further transfer to trucks using a portion of the existing X-Train transfer equipment. The associated pollution control equipment **shall be operated normally during any loading operations**.

[Rule 62-213.410, F.A.C., Air Construction Permit No. 0470002-066-AC and Air Construction Permit No. 0470002-072-AC]

C.3. Hours of Operation. ~~The hours of operation for this~~This emissions unit ~~shall~~ is allowed to operate continuously 8760 hours/year (8784 in any Leap Year).

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

C.4. Methods of Operation. Natural gas shall be fired in the Rotary Dryer as the primary fuel. Fuel oil with a maximum sulfur content of 1.5% by weight may be fired as a backup fuel if the vendor is unable to provide natural gas.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

CONTROL EQUIPMENT AND METHODS

C.5. Baghouses: The baghouse control systems shall be operated and maintained to effectively control particulate matter from each of the emissions points identified above for the regulated emissions units

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

C.6. Wet Scrubbers: The wet scrubber controls shall be operated and maintained to effectively control particulate matter from each of the emissions points identified above for the regulated emissions unit.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

C.7. General Best Operational Practices: Best operational practices to minimize leaks of sulfur dioxide and sulfur trioxide, or other fugitive process emissions shall be adhered to and shall include regular inspections and prompt repair or correction of any leaks or other fugitive emissions.

[Rule 62-296.320, F.A.C.; Permit No. 0470002-055-AC]

EMISSION LIMITATIONS AND STANDARDS

Draft/Proposed

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

{Permitting Note: Unless otherwise specified, the averaging times for these conditions are based on the specified averaging time of the applicable test method.}~~**EMISSION LIMITATIONS AND STANDARDS**~~

~~{Permitting note: Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}~~
~~*{Permitting Note: Unless otherwise specified, the averaging times for these conditions are based on the specified averaging time of the applicable test method.}*~~

C.8. Nitrogen Oxides Emissions. Nitrogen oxides emissions (expressed as NO_2) shall be controlled by the inherent combustion design of the existing unit and the firing of the natural gas as the primary fuel.

[Rule 62-4.070(3), F.A.C.; Permit No. 0470002-055-AC]

Emission Points 02, 03, 04, 05, 06:

C.9. Baghouse Design Specification: Bags/filters in each baghouse control system shall be selected based on a design outlet specification of 0.01 grains per actual cubic feet of exhaust. Compliance shall be demonstrated by maintaining the appropriate records. No stack testing is required.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

Emission Point 01 (X-Train)
Mode 1:

C.~~4~~10. Total Fluoride. Total Fluoride emissions shall not exceed 0.63 lb/hr and 2.76 TPY.

[Rule 62-296.403(2), F.A.C.]

C.~~5~~11. Particulate Matter. Particulate Matter Emissions shall not exceed ~~46.11~~18.0 lbs/hr ~~and 201.96 TPY.~~as determined by EPA Method 5

[Rule 62-296.320(4)(a), F.A.C.~~]~~.; Rule 62-296.340(BART); Construction Permit 0470002-055-AC]

C.~~6~~12. Sulfur Dioxide.

(a) Sulfur Dioxide Emissions shall not exceed 11.10 lbs/hr and 48.62 TPY.

[From PSD FL-083]

~~**C.7.**~~(b) The firing of the fuels as stated in **Condition C.4** shall be used to control sulfur dioxide emissions.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

C.13. Visible Emissions. Visible Emissions shall not be equal to or greater than 20% opacity.

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

Draft/Proposed

Emission Point 01 (X-Train)
Mode 2:

C.~~8~~14. Total Fluoride. Total Fluoride emissions shall not exceed 0.63 lb/hr and 2.76 TPY.

[Rule 62-296.403(2), F.A.C.]

C.~~9~~15. Particulate Matter. Particulate Matter Emissions shall not exceed ~~45.11~~18.0 lbs/hr ~~and 197.62 TPY.~~as determined by EPA Method 5

[Rule 62-296.320(4)(a), F.A.C.~~]~~.; Rule 62-296.340(BART); Construction Permit 0470002-055-AC]

C.~~10~~16. Sulfur Dioxide.

(a) Sulfur Dioxide Emissions shall not exceed 11.10 lbs/hr and 48.62 TPY.

[From PSD FL-083]

~~**C.11.**~~(b) The firing of the fuels as stated in **Condition C.4** shall be used to control sulfur dioxide emissions.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

C.17. Visible Emissions. Visible Emissions shall not be equal to or greater than 20% opacity.

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

Emission Point 02 (Dedust)
Modes 1 and 2:

C.~~12~~18. Opacity Standard. Visible Emissions~~. Visible Emissions~~ from each baghouse exhaust shall not exceed 5% opacity as determined by EPA Method 9.

[Rule 62-297.620(4), F.A.C.~~]~~.; Rules 62-4.070(3), and 62-296.340(BART), F.A.C., Permit No. 0470002-055-AC]

C.19. Particulate Matter Emissions. Particulate Matter Emissions from the baghouse shall not exceed 0.01gr/acfm.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

Emission Point 03 (Shipping)
Modes 1 and 2:

C.~~13.~~20. Opacity Standard. Visible Emissions~~. Visible Emissions~~ from each baghouse exhaust shall not exceed 5% opacity as determined by EPA Method 9.

[Rule 62-297.620(4), F.A.C.~~]~~. .; Rules 62-4.070(3), and 62-296.340(BART), F.A.C., Permit No. 0470002-055-AC]

Draft/Proposed

C.21. Particulate Matter Emissions. Particulate Matter Emissions from the baghouse shall not exceed 0.01gr/acfm.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

Emission Point 04 (X-Train)

The silo has a storage capacity of 2000 tons of limestone. The applicant shall operate the baghouse (including the fan) at all times that the limestone is being loaded into the silo, unloaded from the silo, or discharged into the X-Train process.

[Rule 62-4.070(3), F.A.C. and Application No. 0470002-072-AC]

C.~~14.~~22. Opacity Standard. Visible Emissions~~. Visible Emissions~~ from each baghouse exhaust shall not exceed 5% opacity as determined by EPA Method 9.

[Rule 62-297.620(4), F.A.C., Air Permit No. 0470002-072-AC~~]~~.; Rules 62-4.070(3), and 62-296.340(BART), F.A.C., Permit No. 0470002-055-AC]

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C.23. Particulate Matter Emissions. Particulate Matter Emissions from the baghouse shall not exceed 0.01gr/acfm.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

Emission Point 05 (Reclaim Bin)
Modes 1 and 2:

C.~~15~~24. Opacity Standard. Visible Emissions~~. Visible Emissions~~ from each baghouse exhaust shall not exceed 5% opacity as determined by EPA Method 9.

[Rule 62-297.620(4), F.A.C.~~]~~. .; Rules 62-4.070(3), and 62-296.340(BART), F.A.C., Permit No. 0470002-055-AC]

C.25. Particulate Matter Emissions. Particulate Matter Emissions from the baghouse shall not exceed 0.01gr/acfm.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

Emission Point 06 (Fugitive Dust)
Modes 1 and 2:

~~**C.16. Visible Emissions**~~
C.26. Opacity Standard. Visible Emissions from each baghouse exhaust shall not exceed 5% opacity~~.~~ as determined by EPA Method 9.

[Air Construction Permit No. 0470002-038-AC; Rule 62-296.320(4)(b), F.A.C.; and Rule 62-297.620(4), F.A.C.~~]~~.; Rules 62-4.070(3), and 62-296.340(BART), F.A.C., Permit No. 0470002-055-AC]

~~**TEST METHODS AND PROCEDURES**~~

C.27. Particulate Matter Emissions. Particulate Matter Emissions from the baghouse shall not exceed 0.01gr/acfm.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

TEST METHODS AND PROCEDURES

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

Emission Point 01 (X-Train)
Modes 1 and 2:

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C.~~17~~28. Total Fluoride. Fluoride emissions stack test method shall be EPA Method 13A or 13B incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year.

[Rule 62-296.403(3), F.A.C.; Rule 62-297.401, F.A.C.~~.]~~]

C.~~18~~29. Particulate Matter. Particulate Matter Emissions stack test method shall be EPA Method 5 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year~~.~~ (October 1st – September 30th).

[Rule 62-296.320(4)(a), F.A.C.; Rule 62-297.401, F.A.C.~~]~~. .; Rule 62-204.800, 40 CFR 60, Appendix A; Permit No. 0470002-055-AC]

C.~~19~~30. Sulfur Dioxide. In lieu of stack testing, the Permittee shall comply with the applicable requirements in Rule 62-297.440(1), F.A.C. or maintain a record of acceptable, certified analyses of all fuel oil fired and report annually prior to March 1 of each year.

C.~~20~~31. Visible Emissions. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year.

[Rule 62-296.320(4)(b), F.A.C.; Rule 62-297.401, F.A.C.]

Emission Point 01 (X-Train)
Mode 3:

C.32. Visible Emissions. Visible Emissions shall not exceed 5% opacity.

{Permitting Note: The railcar Monocal or Dical will be a finished product that has already been screened for dust prior to shipment. There should be little dust associated with this Mode of operation.}

[Rule 62-297.620(4), F.A.C., Air Construction Permit No. 0470002-066-AC]

C.33. Visible Emissions. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C.

Draft/Proposed

[Rule 62-296.320(4)(b), F.A.C.; Rule 62-297.401, F.A.C.]

Emission Point 02 (Dedust)
Modes 1 and 2:

C.~~21~~34. Visible Emissions. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year~~.~~ (October 1st to September 30th).

[Rule 62-296.320(4)(b), F.A.C.; Rule 62-297.401, F.A.C.~~]~~.; ; 40 CFR 60, Appendix A; Rule 62-204.800, Rule 62-296.340(3)(b)2., Rule 62-297.310(7)(a)4., F.A.C., Permit No. 0470002-055-AC]

Emission Point 03 (Shipping)
Modes 1 and 2:

C.~~22~~35. Visible Emissions. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year.

[Rule 62-296.320(4)(b), F.A.C.; Rule 62-297.401, F.A.C.]

Emission Point 04 (Limestone Silo)
Modes 1 and 2:

C.~~23~~36. Visible Emissions. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year. Annual VE testing shall be performed for a minimum period of 30 minutes while the silo is being loaded from a tanker truck or during the loading of a tanker truck from the silo.

[Rule 62-296.320(4)(b), F.A.C.; Rule 62-297.401, F.A.C., Rule 62-4.070, F.A.C., and Air Permit No. 0470002-072-AC]

Emission Point 05 (Reclaim Bin)
Modes 1 and 2:

C.~~24~~37. Visible Emissions. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year.

[Rule 62-296.320(4)(b), F.A.C.; Rule 62-297.401, F.A.C.]

Emission Point 06 (Fugitive Dust)
Modes 1 and 2:

C.~~25~~38. Visible Emissions. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year.

[Rule 62-296.320(4)(b), F.A.C.; Rule 62-297.401, F.A.C.]

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C.39. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. Parametric data recorded for the wet scrubber during each test shall be provided with the required test report. As necessary, EPA Methods 1-4 shall be conducted to support the other test methods.

[Rules 62-297.310(7)9., 62-4.070(3), and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

CONTINUOUS MONITORING

C.40. Wet Scrubber Parameters: For each wet scrubber, the permittee shall install, operate and maintain devices to continuously monitor the scrubber water flow rate, the pressure drop across the scrubber and the fan amperage. Such devices shall be calibrated, fully functional and in operation before conducting the initial compliance tests. The scrubber parameters shall be continuously monitored and manually recorded at least once during each eight-hour block of operation. Alternatively, the parametric data may be continuously recorded. During each required compliance test, such data shall be recorded at 15-minute intervals.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

RECORDKEEPING

C.41. Baghouses Records: The permittee shall maintain records on site of the vendor data sheets that demonstrate compliance with the baghouse design outlet specification for the bags/filters. To demonstrate initial compliance, the permittee shall provide copies of such records with the corresponding visible emissions test report that demonstrates initial compliance with the opacity standard.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

C.42. Wet Scrubber Records: The permittee shall maintain records on site of the scrubber water flow rate and the pressure drop across the scrubber. In addition, the following vendor design information shall be maintained on site for each wet scrubber: exhaust flow rate; scrubber water flow rate, scrubber pressure drop, dust inlet loading, dust outlet loading and control efficiency.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

COMMON CONDITIONS - ON-SPEC USED OIL/LEAD

C.~~26~~43. This emissions unit is also subject to the On-Spec Used Oil/Lead conditions in Subsection EE**.**

COMMON CONDITIONS - F.A.C. TEST REQUIREMENTS

C.~~27~~44. This emissions unit is also subject to applicable F.A.C. Test Requirements in Subsection FF.

~~**Emission Point 01 (X-Train)**~~
~~**Mode 3:**~~

~~**C.28. Visible Emissions**. Visible Emissions shall not exceed 5% opacity.~~

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~~*{Permitting Note: The railcar Monocal or Dical will be a finished product that has already been screened for dust prior to shipment. There should be little dust associated with this Mode of operation.}*~~

~~[Rule 62-297.620(4), F.A.C., Air Construction Permit No. 0470002-066-AC]~~

~~**C.29**~~

~~. **Visible Emissions.** Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C.~~

~~[Rule 62-296.320(4)(b), F.A.C.; Rule 62-297.401, F.A.C.]~~

Draft/Proposed

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

E.U. ID No.	Brief Description
008	"Y"-Train No. 1 MAP/DAP Plant

The "Y" Train DAP/MAP Plant is permitted for input rate of 36.33 TPH of P_2O_5 feed (daily average) and 290,112 TPY of P_20_5 input basis, 12-month rolling total. The plant is capable of producing fertilizer by five different modes (Mode 1: DAP by Split Flows of 30% & 50% P_2O_5 phosphoric acid; Mode 2: DAP by 40% P_2O_5 acid; Mode 3: Triplesuperphosphate (TSP) – *no longer produced or permitted*; Mode 4: MAP by Split Flows of 30% & 50% P_2O_5 acid; Mode 5: MAP by 40% P_2O_5 acid; Mode 6: MAP by reacting ammonia and acid in two pipe reactors**.** The plant consists of the two separate pipe reactors (Mode 6), a tank reactor for the other modes, two pug mills, dryer, cooler, screens, mills, and other associated process equipment. Particulate matter, fluoride, and sulfur dioxide emissions are controlled by cyclones, venturi and cyclonic scrubbers. Emissions from the pipe reactors are vented to the reactor scrubber for ammonia removal and then to a scrubber for fluoride control. The permittee conducted testing on the pond water scrubbers for CAM applicability. CAM does not apply for this emissions unit. Fluoride emissions are covered by the 40 CFR 63 Subpart BB and testing was done by the permittee to show the pond water scrubbers are not designed for PM control.

{Permitting note(s): These emissions units are regulated under NSPS - 40 CFR 60, Subpart V, Standards of Performance for the Phosphate Fertilizer Industry: Diammonium Phosphate Plants, adopted and incorporated by reference in Rule 62-204.800(7)(b)28., F.A.C.; Rule 62-212.300, F.A.C., General Preconstruction Review Requirements; 62-212.400, F.A.C., Prevention of Significant Deterioration; Rule 62-296.320, F.A.C., General Pollutant Emission Limiting Standards; and Rule 62-296.403, F.A.C., Phosphate Processing; 40 CFR 63, Subpart A - General Provisions; 40 CFR 63, Subpart BB - National Emission Standards for Hazardous Air Pollutants From Phosphate Fertilizers Production Plants. The inclusion of project 0470002-050-AC makes EU 008 subject to 40 CFR 60 Subpart V for DAP production. **The Part 40 CFR 63 Subparts A and BB take precedence, however these units are subject to all applicable State Implementation Plan (SIP) rules if these units are out of compliance with the NESHAP**}.

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

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

D.1. Permitted Capacity.

The P_2O_5 feed shall not exceed 36.33 tons per hour (daily average) and 290,112 TPY of P_20_5 input basis, 12-month rolling total.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Construction Permit No. 0470002-034-AC; Construction Permit No. 0470002-050-AC; and 0470002-079-AC]

Draft/Proposed

D.2. Methods of Operation are as follows:

Mode 1 -DAP (Diammonium Phosphate) produced by Split Acid (30% & 50% P_2O_5 INPUT) phosphoric acid.
Mode 2 - DAP (Diammonium Phosphate) produced by 40% P_2O_5 INPUT phosphoric acid.
Mode 4 - MAP (Monoammonium Phosphate) produced by Split Acid (30% & 50% P_2O_5 INPUT) phosphoric acid.
Mode 5 - MAP (Monoammonium Phosphate) produced by 40% P_2O_5 INPUT phosphoric acid.
Mode 6 – MAP produced by reacting ammonia and acid in two pipe reactors.

Only one of the five operating modes shall be in operation at one time. ~~Process fuels fired are natural gas or fuel oil with a maximum sulfur content of 1.0%.~~

[Rule 62-213.410, F.A.C.; Construction Permit No. 0470002-050-AC]

D.3. Hours of Operation. ~~The hours of operation for this~~ This emissions unit shall ~~is~~be allowed to operate continuously 8760 hours/year (8784 in any Leap Year).

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Construction Permit No. 0470002-050-AC]

D.4. Methods of Operation. Natural gas shall be fired in the Rotary Dryer as the primary fuel. Fuel oil with a maximum sulfur content of 1.5% by weight may be fired as a backup fuel if the vendor is unable to provide natural gas.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

CONTROL EQUIPMENT AND METHODS

D.5. Wet Scrubbers: The wet scrubber controls shall be operated and maintained to effectively control particulate matter from each of the emissions points identified above for the regulated emissions unit.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

D.6. General Best Operational Practices: Best operational practices to minimize leaks of sulfur dioxide and sulfur trioxide, or other fugitive process emissions shall be adhered to and shall include regular inspections and prompt repair or correction of any leaks or other fugitive emissions.

[Rule 62-296.320, F.A.C.; Permit No. 0470002-055-AC]

EMISSION LIMITATIONS AND STANDARDS

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

{Permitting Note: Unless otherwise specified, the averaging times for these conditions are based on the specified averaging time of the applicable test method.}

~~**EMISSION LIMITATIONS AND STANDARDS**~~

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

~~*{Permitting Note: Unless otherwise specified, the averaging times for these conditions are based on the specified averaging time of the applicable test method.}*~~

Emission Point 01

MODES 1-2, 4- 5:

D.7. Sulfur Dioxide.

(a) Sulfur Dioxide Emissions shall not exceed 11.10 lbs/hr and 48.62 TPY.

[From 11/82 PSD model]

(b) The firing of the fuels as stated in Condition D.4 shall be used to control sulfur dioxide emissions.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

ALL MODES:

D.~~4~~8. Total Fluorides. Total Fluoride emissions shall not exceed 30 grams/metric ton of equivalent P_2O_5 feed (0.060 lb/ton), 2.18 lb/hr, and 9.54 TPY.

[40 CFR 63.622(a) and Air Construction Permit 0470002-050-AC]

~~**MODES 1-2, 4- 5:**~~

D.~~5. Sulfur Dioxide~~. ~~Sulfur Dioxide Emissions shall not exceed 11.10 lbs/hr and 48.62 TPY.~~

~~[From 11/82 PSD model]~~

~~**ALL MODES:**~~

~~D.6~~9. Visible Emissions. Visible Emissions shall not be equal to or greater than 20% opacity.

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

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~~**MODES 1 or 2:**~~

D.~~7~~10. Particulate Matter. Particulate Matter Emissions shall not exceed ~~33.33~~9.2 lbs/hr ~~and 145.99 TPY~~as determined by EPA Method 5.

[Rule 62-296.320(4)(a), F.A.C.~~]~~.; Air Construction Permit 0470002-055-AC]

~~**MODES 4, 5, or 6:**~~

D.~~8. Particulate Matter. **For MAP production the Particulate Matter**~~**11. Nitrogen Oxides Emissions**. Nitrogen oxides emissions (expressed as NO_2) shall ~~**not exceed 45.15 lbs/hr and 197.74 TPY**~~be controlled by the inherent combustion design of the existing unit and the firing of the natural gas as the primary fuel.

[Rule 62-~~**296.320(**~~4~~**)(a**~~.070(3), F.A.C.~~**, and Air Construction**~~.; Permit No. 0470002-~~**050**~~055-AC]

OPERATING REQUIREMENTS

D.~~9~~12. Scrubber Parameter Daily Averages. The permittee shall maintain daily averages of the pressure drop across each scrubber and of the flow rate of the scrubbing liquid to each scrubber within the allowable ranges established pursuant the requirements of **Condition HH.4.(1) or (2)**.

[Rule 62-204.800, F.A.C.; 40 CFR 63.624]

MONITORING REQUIREMENTS

D.~~10~~13. Phosphorus-Bearing Feed Material. The Permittee shall install, calibrate, maintain, and operate a monitoring system, which can be used to determine and permanently record the mass flow of phosphorus-bearing feed material to the process. The monitoring system shall have an accuracy of ±5 percent over its operating range.

[Rule 62-204.800, F.A.C.; 40 CFR 60.203(a)]

D.~~11~~14. P_2O_5 Feed. The Permittee shall maintain a daily record of equivalent P_2O_5 feed.

[Rule 62-204.800, F.A.C.; 40 CFR 60.203(b)]

D.~~12~~15. Scrubber Pressure Drop. The Permittee shall install, calibrate, maintain, and operate a monitoring system which continuously measures and permanently records the pressure drop across each scrubber in the process scrubbing system in 15-minute block averages. The monitoring system shall be certified by the manufacturer to have an accuracy of ±5 percent over its operating range.

[Rule 62-204.800, F.A.C.; 40 CFR 60.203(c)]

Draft/Proposed

~~**D.13.** The Permittee shall meet the 40 CFR 63 Subpart BB monitoring requirements stated in **Common Conditions III.1 – III.3.**~~

Draft/Proposed

D.16. Wet Scrubber Parameters: For each wet scrubber, the permittee shall install, operate and maintain devices to continuously monitor the scrubber water flow rate, the pressure drop across the scrubber and the fan amperage. Such devices shall be calibrated, fully functional and in operation before conducting the initial compliance tests. The scrubber parameters shall be continuously monitored and manually recorded at least once during each eight-hour block of operation. Alternatively, the parametric data may be continuously recorded. During each required compliance test, such data shall be recorded at 15-minute intervals.
[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

~~**TEST METHODS AND PROCEDURES**~~
TEST METHODS AND PROCEDURES

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

Emission Point 01

MODES 1, 2, 4 and 5:

D.17. Sulfur Dioxide. In lieu of stack testing, the Permittee shall comply with the applicable requirements in Rule 62-297.440(1), F.A.C. or maintain a record of acceptable, certified analyses of all fuel oil fired and report annually prior to March 1 of each year.

ALL MODES:

D.~~14~~18. Total Fluorides.

(a) The test method shall be EPA Method 13A or EPA Method 13B, incorporated and adopted by reference in Chapter 62-297, F.A.C. The minimum sample volume shall be 30 dry standard cubic feet.

(b) Test procedures shall meet all applicable requirements of Chapter 62-297, F.A.C.

[Rule 62-296.403(3), F.A.C.; Rule 62-297.401(13), F.A.C.; Construction Permit No. 0470002-050-AC]

D.~~15. Total Fluorides~~19. Total Fluorides. The Permittee shall meet the 40 CFR 63 Subpart BB performance testing requirements stated in **Common Conditions HH.5 – HH.7.**

~~**MODES 1, 2, 4 and 5:**~~

~~**D.16. Sulfur Dioxide**. In lieu of stack testing, the Permittee shall comply with the applicable requirements in Rule 62-297.440(1), F.A.C. or maintain a record of acceptable, certified analyses of all fuel oil fired and report annually prior to March 1 of each year.~~

~~**ALL MODES:**~~

~~**D.17. Particulate Matter**.~~**D.20. Particulate Matter**. Particulate Matter Emissions stack test method shall be EPA Method 5 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year~~.~~ (October 1st – September 30th).

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[Rule 62-296.320(4)(a), F.A.C.; Rule 62-297.310(7)(a)4.b., F.A.C.; Rule 62-297.401(5), F.A.C.; Construction Permit No. 0470002-050-AC; Rule 62-204.800, 40 CFR 60, Appendix A; Permit No. 0470002-055-AC]

D.~~18~~21. Visible Emissions. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year.

[Rule 62-296.320(4)(b), F.A.C.; Rule 62-297.310(7)(a)4.a., F.A.C.; Rule 62-297.401(9), F.A.C.; Construction Permit No. 0470002-050-AC]

D.22. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. Parametric data recorded for the wet scrubber during each test shall be provided with the required test report. As necessary, EPA Methods 1-4 shall be conducted to support the other test methods.

[Rules 62-297.310(7)9., 62-4.070(3), and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

NOTIFICATION, RECORDKEEPING, REPORTING REQUIREMENTS

D.~~19~~23. The Permittee shall meet the 40 CFR 63 Subpart BB notification, recordkeeping, and reporting requirements stated in **Common Conditions HH.8. – HH.10.**

D.~~20~~24. This emissions unit is subject to specific requirements of 40 CFR 63 Subpart BB, Appendix A to Subpart BB– Applicability to General Provisions to Subpart BB, and alternative MACT monitoring plan (Administrative Order No. 04-I-AP, dated October 4, 2004). The owner or operator is responsible for remaining in compliance with any updates made to Subpart A or BB. This EU is subject to Facility Wide Condition No. 10.

[40 CFR 63-Subpart A; 40 CFR 63-Subpart BB; and Administrative Order No. 04-I-AP, Alternate MACT Monitoring Plan]

D.~~21~~25. This emissions unit is exempted from any otherwise applicable new source performance standard contained in 40 CFR Part 60, Subpart V. To be exempt, a source must have a current operating permit pursuant to Title V of the Act and the source must be in compliance with all requirements of 40 CFR 63, Subpart BB. For each affected source, this exemption is effective upon the date that the owner or operator demonstrates to the Administrator that the requirements of **Conditions D.~~9~~12., HH.1. through HH.7.**, have been met.

{Permitting Note: Department determined that the requirements for exemption have been met by the facility as of 8/16/06. In accordance with this regulation, if the source is not in compliance with all requirements of 40 CFR 63, Subpart BB, the exemption from any otherwise applicable new source performance standard contained in 40 CFR Part 60, Subpart V is no longer valid.}

[40 CFR 63.631]

D.26. Wet Scrubber Records: The permittee shall maintain records on site of the scrubber water flow rate and the pressure drop across the scrubber. In addition, the following vendor design information shall be maintained on site for each wet scrubber: exhaust flow rate; scrubber water flow rate, scrubber pressure drop, dust inlet loading, dust outlet loading and control efficiency.

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[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

Common Conditions - On-Spec Used Oil/Lead

D.~~22~~27. This emissions unit is also subject to the On-Spec Used Oil/Lead conditions in Subsection EE**.**

Common Conditions - F.A.C. Test Requirements

D.~~23~~28. This emissions unit is also subject to applicable F.A.C. Test Requirements in Subsection FF.

Common Conditions – General Provisions of 40 CFR 63

D.~~24~~29. This emissions unit is also subject to the applicable requirements of 40 CFR 63 Subpart A.

Common Conditions

D.30. The Permittee shall meet the 40 CFR 63 Subpart BB monitoring requirements stated in **Common Conditions HH.1 – HH.3.**

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

E.U. ID No.	Brief Description
010	#1 Storage and Shipping Building

The #1 Storage & Shipping building. Particulate matter emissions are controlled by a Buffalo wet scrubber when shipping Monocal or Dical or Defluorinated Phosphate (DFP) or DAP (Diammonium Phosphate) or MAP (Monoammonium Phosphate). CAM does not apply for particulate matter for this emission unit.

{Permitting note(s): These emissions units are regulated under Rule 62-296.320, F.A.C., General Pollutant Emission Limiting Standards; and Rule 62-296.403, F.A.C., Phosphate Processing, adopted and incorporated by reference in Rule 62-204.800, F.A.C.}

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

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

E.1. Permitted Capacity. The operation rate shall not exceed the Maximum 12-MRA Hourly Rate = 175 tons of product or Maximum Daily 1-Hour Average Rate = 195 tons of product for each mode and only one mode at a time.

12-MRA (MRA - Monthly Rolling Average) Hourly Rate Maximum shall not be exceeded by the 12-MRA hourly rate calculated by averaging each monthly hourly average with the previous 11 monthly hourly averages.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Air Construction Permit 0470002-034-AC]

E.2. Methods of Operation are as follows:

- DAP (Diammonium Phosphate), MAP (Monoammonium Phosphate), Monocal, Dical, DFP (Defluorinated Phosphate) Shipment

E.3. Hours of Operation. ~~The hours of operation for this~~ This emissions unit shall ~~is~~be allowed to operate continuously 8760 hours/year (8784 in any Leap Year).

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

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~~**EMISSION LIMITATIONS AND STANDARDS**~~

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

~~*{Permitting Note: Unless otherwise specified, the averaging times for these conditions are based on the specified averaging time of the applicable test method.}*~~

~~**E.4.**~~
CONTROL EQUIPMENT AND METHODS

E.4. Wet Scrubbers: The wet scrubber controls shall be operated and maintained to effectively control particulate matter from each of the emissions points identified above for the regulated emissions units.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C; Permit No. 0470002-055-AC]

EMISSION LIMITATIONS AND STANDARDS

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

{Permitting Note: Unless otherwise specified, the averaging times for these conditions are based on the specified averaging time of the applicable test method.}

E.5. Particulate Matter. Particulate Matter Emissions shall not exceed ~~36.17~~4.7 lbs/hr ~~and 158.42 TPY.~~as determined by EPA Method 5.

[Rule 62-296.320(4)(a), F.A.C.~~]~~.; Rule 62-296.340(BART), F.A.C.; Air Construction Permit 0470002-055-AC]

E.~~5~~6. Visible Emissions. Visible Emissions shall not be equal to or greater than 20% opacity.

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

TEST METHODS AND PROCEDURES

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

E.~~6~~7. Particulate Matter. Particulate Matter Emissions stack test method shall be EPA Method 5 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year~~.~~ (October 1st – September 30th).

[Rule 62-296.320(4)(a), F.A.C.; Rule 62-297.310(7)(a)4.b., F.A.C.; Rule 62-297.401, F.A.C.~~]~~.; Rule 62-204.800, Rule 62-296.340(3)(b)2, 40 CFR 60, Appendix A; Permit No.0470002-055-AC]

E.~~7~~8. Visible Emissions. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year.

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[Rule 62-296.320(4)(b), F.A.C.; Rule 62-297.310(7)(a)4.a., F.A.C.; Rule 62-297.401, F.A.C.]

~~**COMMON CONDITIONS - F.A.C. TEST REQUIREMENTS**~~

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E.9. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. Parametric data recorded for the wet scrubber during each test shall be provided with the required test report.

[Rules 62-297.310, 62-4.070(3), and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

CONTINUOUS MONITORING

E.10. Wet Scrubber Parameters: For each scrubber, the permittee shall install, operate and maintain devices to continuously monitor the scrubber water flow rate, the pressure drop across the scrubber and the fan amperage. Such devices shall be calibrated, fully functional and in operation before conduction the initial compliance tests.

a. For each emissions unit subject to a CAM plan, the scrubber parameters shall be continuously monitored and recorded. For each operating hour, the 1-hour block average shall be computed from at least four data points evenly spaced over each operating hour. This data shall be used to develop new excursion levels for the scrubber parameters in the CAM plan.

b. For each emissions unit subject to a CAM plan, the scrubber parameters shall be continuously monitored and manually recorded at least once during each eight –hour block of operation. Alternatively, the parametric data may be continuously recorded. During each required compliance test, such data shall be recorded at 15-minute intervals.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

RECORDKEEPING

E.11. Wet Scrubber Records: The permittee shall maintain records on site of the scrubber water flow rate and the pressure drop across the scrubber. In addition, the following vendor design information shall be maintained on site for each wet scrubber: exhaust flow rate; scrubber water flow rate, scrubber pressure drop, dust inlet loading, dust outlet loading and control efficiency.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.]

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

E.U. ID No.	Brief Description
015	Granular Product Shipping Facility

MAP (Monoammonium Phosphate) or DAP (Diammonium Phosphate) or Monocal or Dical or Defluorinated Phosphate (DFP) Shipping Facility. The product is transported by front-end loaders from storage piles located in the shipping and screening facility area into hoppers where product is sorted and transported to loading silos for railcar or truck loading. Particulate matter emissions from the shipping and screening facility are controlled by a single cyclone in series with a Venturi wet scrubber. CAM does not apply for particulate matter for this emission unit.

{Permitting note: This emissions unit is regulated under Rule 62-296.320, F.A.C., General Pollutant Emission Limiting Standards.}

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

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

F.1. Permitted Capacity. The rate shall not exceed the Maximum 12-MRA Hourly Rate = 215 tons of product or Maximum Daily 1-Hour Average Rate = 240 tons of product for each mode and only one mode at a time. The modes are defined as the operating modes for the Dical Plant (EU 004), MAP/DAP Plants (EUs 008 and 032) and the DFP Plants (EUs 003 and 038). 12-MRA (MRA - Monthly Rolling Average) Hourly Rate Maximum shall not be exceeded by the 12-MRA hourly rate calculated by averaging each monthly hourly average with the previous 11 monthly hourly averages.
~~12-MRA (MRA - Monthly Rolling Average) Hourly Rate Maximum shall not be exceeded by the 12-MRA hourly rate calculated by averaging each monthly hourly average with the previous 11 monthly hourly averages.~~

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Air Construction permit No. 0470002-034-AC; air Construction Permit No. 0470002-042-AC]

F.2. Hours of Operation. ~~The hours of operation for this~~This emissions unit shall ~~is~~be allowed to operate continuously 8760 hours/year (8784 in any Leap Year).

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

CONTROL EQUIPMENT AND METHODS

F.3. Wet Scrubbers: The wet scrubber controls shall be operated and maintained to effectively control particulate matter from each of the emissions points identified above for the regulated emissions units.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

EMISSION LIMITATIONS AND STANDARDS

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

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F.~~3~~4. Particulate Matter Emissions. Particulate Matter Emissions shall not exceed ~~40.41~~1.46 lbs/hr ~~and 177.00 TPY~~as determined by EPA Method 5.

[Rule 62-296.320(4)(a), F.A.C.~~.~~; Rule 62-296.340(BART), F.A.C.; Air Construction Permit 0470002-055-AC]

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F.~~4~~5. Visible Emissions. Visible Emissions shall not be equal to or greater than 20% opacity.

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

TEST METHODS AND PROCEDURES

{Permitting note: Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}~~**TEST METHODS AND PROCEDURES**~~

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

F.~~5. Test Methods~~6. Particulate Matter. Particulate Matter Emissions stack test method shall be EPA Method 5 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed ~~every 5 years with a frequency base day of 09/15/94.~~ annually, once each federal fiscal year (October 1st – September 30th).

[Rule 62-296.320(4)(a), F.A.C.; Rule 62-297.401, F.A.C.~~]~~. .; Rule 62-204.800, Rule 62-296.340(3)(b)2, 40 CFR 60, Appendix A; Permit No. 0470002-055-AC]

F.~~6. Test Methods~~7. Visible Emissions. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually with a frequency base date of 09/15/94.

[Rule 62-296.320(4)(b), F.A.C.; Rule 62-297.401, F.A.C.]

F.8. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. Parametric data recorded for the wet scrubber during each test shall be provided with the required test report.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC; Rule 62-297.310(7)(a)9, F.A.C]

COMMON CONDITIONS - F.A.C. TEST REQUIREMENTS

F.~~7~~9. This emissions unit is also subject to applicable F.A.C. Test Requirements in Subsection FF.

CONTINUOUS MONITORING

F.10. Wet Scrubber Parameters: For each scrubber, the permittee shall install, operate and maintain devices to continuously monitor the scrubber water flow rate, the pressure drop across the scrubber and the fan amperage. Such devices shall be calibrated, fully functional and in operation before conduction the initial compliance tests.

a. For each emissions unit subject to a CAM plan, the scrubber parameters shall be continuously monitored and recorded. For each operating hour, the 1-hour block average shall be computed from at least four

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data points evenly spaced over each operating hour. This data shall be used to develop new excursion levels for the scrubber parameters in the CAM plan.

b. For each emissions unit subject to a CAM plan, the scrubber parameters shall be continuously monitored and manually recorded at least once during each eight –hour block of operation. Alternatively, the parametric data may be continuously recorded. During each required compliance test, such data shall be recorded at 15-minute intervals.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.]

RECORDKEEPING

F.11. Wet Scrubber Records: The permittee shall maintain records on site of the scrubber water flow rate and the pressure drop across the scrubber. In addition, the following vendor design information shall be maintained on site for each wet scrubber: exhaust flow rate; scrubber water flow rate, scrubber pressure drop, dust inlet loading, dust outlet loading and control efficiency.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.]

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

E.U. ID No.	Brief Description
021	"C" Sulfuric Acid Plant

"C" Sulfuric Acid Plant is a double absorption process that produces sulfuric acid and controls sulfur dioxide (SO_2) emissions and has a Brinks mist eliminator to control sulfuric acid mist (SAM). CAM does not apply for sulfur dioxide for this emissions unit.

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

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

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

H.1. Permitted Capacity. The production rate shall not exceed 2300 TPD, expressed as 100 percent H_2S0_4 or 95.83 TPH.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Construction Permit No. AC24-146402]

H.2. Hours of Operation. ~~The hours of operation for this~~This emissions unit ~~shall~~ is allowed to operate continuously 8760 hours/year (8784 in any Leap Year).

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Construction Permit No. AC24-146402; Construction Permit No. 0470002-034-AC]

CONTROL EQUIPMENT AND METHODS

H.3. Wet Scrubbers: The wet scrubber controls shall be operated and maintained to effectively control particulate matter from each of the emissions points identified above for the regulated emissions unit.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

H.4. General Best Operational Practices: Best operational practices to minimize leaks of sulfur dioxide and sulfur trioxide, or other fugitive process emissions shall be adhered to and shall include regular inspections and prompt repair or correction of any leaks or other fugitive emissions.

[Rule 62-296.320, F.A.C.; Permit No. 0470002-055-AC]

H.5. Best Operational Startup Practices for Sulfuric Acid Plants: Sulfuric acid plants are authorized for excess emissions from startup for a period of three consecutive ours provided best operational practices to minimize emissions are adhered to in accordance with the agreement titled "Best Operational Startup Practices for Sulfuric Acid Plants" attached to this permit as Appendix BOP.

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[Rule 62-210.700, F.A.C., 40 CFR 60.7]
EMISSION LIMITATIONS AND STANDARDS

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

{Permitting Note: Unless otherwise specified, the averaging times for these conditions are based on the specified averaging time of the applicable test method.}

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H.~~3.~~ 6. Sulfur Dioxide.

(a) Sulfur Dioxide Emissions shall not exceed 2 kg per metric ton of acid produced (4 lb per ton), the production being expressed as 100 percent H_2SO_4, ~~383.33~~335.4 lbs/hr ~~and 1679.00 TPY.~~

[Rule 62-204.800(7)(b)10., F.A.C.; 40 CFR 60.82(a); Construction Permit No. AC24-146402; Construction Permit 0470002-055-AC]

(b) Sulfur Dioxide emissions shall not exceed 3.5 lb/ton of 100% sulfuric acid produced (AP) based on 24-hour rolling CEMS average. No stack testing is required.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

H.~~4~~7. Sulfuric Acid Mist (SAM). SAM emissions, expressed as H_2SO_4, shall not exceed 0.075 kg per metric ton of acid produced (0.15 lb per ton), the production being expressed as 100 percent H_2SO_4, 14.38 lbs/hr and 63.00 TPY.

[Rule 62-204.800(7)(b)10. F.A.C.; 40 CFR 60.83(a)(1); Construction Permit No. AC24-146402]

H.~~5~~8. Nitrogen Oxides Emissions. Nitrogen Oxides Emissions (expressed as NO_2) shall not exceed 0.14 lb/ton of 100% sulfuric acid produced.

[Air Construction Permit 0470002-055-AC; Rule 62-4.070(3), F.A.C.]

~~H.~~9. Visible Emissions. Visible Emissions shall not exceed 10% opacity~~.~~ as determined by EPA Method 9. Opacity observations shall be made at the point of greatest opacity in that portion of the plume where condensed water vapor is not present.

[Rule 62-204.800(7)(b)10., F.A.C.; 40 CFR 60.83(a)(2); Construction Permit No. AC24-146402; Rule 62-296.340 (BART), F.A.C.; and 40 CFR 60, Appendix A, Method 9; Permit No. 0470002-055-AC]

~~**TEST METHODS AND PROCEDURES**~~

~~{Permitting note: Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}~~**TEST METHODS AND PROCEDURES**

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

H.~~6~~10. Sulfur Dioxide. The following procedures and test methods shall be used to determine sulfur dioxide emissions. A compliance test shall be conducted on an annual basis, once each federal fiscal year~~:~~ (October 1st – September 30th):

~~(a~~

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(a) EPA Method 6/6C shall be used to demonstrate compliance with the corresponding SO2 emission standard;

(b) The test methods in 40 CFR Appendix A or other methods and procedures as specified in this condition, except as provided in 40 CFR 60.8(b).

(~~b~~c) (1) The emission rate (E) of sulfur dioxide shall be computed for each run using the following equation:

E=(CQsd)/(PK)
where:
E = emission rate of SO_2 kg/metric ton (lb/ton) of 100 percent H_2SO_4 produced.
C = concentration of SO_2, g/dscm (lb/dscf).
Qsd = volumetric flow rate of the effluent gas, dscm/hr (dscf/hr).
P = production rate of 100 percent H_2SO_4, metric ton/hr (ton/hr).
K = conversion factor, 1000 g/kg (1.0 lb/lb).

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~~**H.6 continued:**~~

(2) Method 8 shall be used to determine the Sulfur Dioxide concentration (C) and the volumetric flow rate (Qsd) of the effluent gas. The moisture content may be considered to be zero. The sampling time and sample volume for each run shall be at least 60 minutes and 1.15 dscm (40.6 dscf).

(3) Suitable methods shall be used to determine the production rate (P) of 100 percent H_2SO_4 for each run. Material balance over the production system shall be used to confirm the production rate.

(4) N/A

(~~c~~d) The following may be used as alternatives to the reference methods and procedures specified in this condition:

(1) If a source processes elemental sulfur or an ore that contains elemental sulfur and uses air to supply oxygen, the following procedure may be used instead of determining the volumetric flow rate and production rate:

(i) The integrated technique of Method 3 is used to determine the O_2 concentration and, if required, CO_2 concentration.

(ii) The SO_2 emission rate is calculated as described in Condition H.12. substituting the acid mist concentration for Cs as appropriate.

[40 CFR 60.85(a),(b),(c); Rule 62-204.800(7)(b)10., F.A.C.; Rule 62-297.401, F.A.C.; Construction Permit No. AC24-146402; Permit No. 0470002-055-AC]

H.~~7~~11. Sulfuric Acid Mist. The following procedures and test methods shall be used to determine sulfuric acid mist. A compliance test shall be conducted on an annual basis, once each federal fiscal year:

(a) The test methods in 40 CFR Appendix A or other methods and procedures as specified in this condition, except as provided in 40 CFR 60.8(b).

(b) (1) The emission rate (E) of sulfuric acid mist shall be computed for each run using the following equation:

$$E=(CQsd)/(PK)$$

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~~**H.7 continued:**~~

where:

E = emission rate of acid mist kg/metric ton (lb/ton) of 100 percent H_2SO_4 produced.
C = concentration of acid mist, g/dscm (lb/dscf).
Qsd = volumetric flow rate of the effluent gas, dscm/hr (dscf/hr).
P = production rate of 100 percent H_2SO_4, metric ton/hr (ton/hr).
K = conversion factor, 1000 g/kg (1.0 lb/lb).

(2) Method 8 shall be used to determine the Sulfuric Acid Mist concentration (C) and the volumetric flow rate (Qsd) of the effluent gas. The moisture content may be considered to be zero. The sampling time and sample volume for each run shall be at least 60 minutes and 1.15 dscm (40.6 dscf).

(3) Suitable methods shall be used to determine the production rate (P) of 100 percent H_2SO_4 for each run. Material balance over the production system shall be used to confirm the production rate.

(4) N/A

(c) The following may be used as alternatives to the reference methods and procedures specified in this condition:

(1) If a source processes elemental sulfur or an ore that contains elemental sulfur and uses air to supply oxygen, the following procedure may be used instead of determining the volumetric flow rate and production rate:

(i) The integrated technique of Method 3 is used to determine the O_2 concentration and, if required, CO_2 concentration.

(ii) The acid mist emission rate is calculated as described in Condition H.12. substituting the acid mist concentration for C as appropriate.

[40 CFR 60.85(a),(b),(c); Rule 62-204.800(7)(b)10., F.A.C.; Rule 62-297.401, F.A.C.; Construction Permit No. AC24-146402]

H.~~8~~12. Nitrogen Oxides Emissions Compliance with nitrogen oxides emissions shall be determined by EPA Method 7E upon request by the Department.

[Air Construction Permit 0470002-55-AC; Rule 62-4.070(3), F.A.C.]

H.13. Visible Emissions. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year~~.~~ (October 1st – September 30th). Opacity observations shall be made at the point of greatest opacity in that portion of the plume where condensed water vapor is not present.

[Rule 62-204.800(7)(b)10., F.A.C.; Rule 62-297.310(7)(a)4.a., F.A.C.; 40 CFR 60.85(b)(4); Rule 62-297.401, F.A.C.; Construction Permit No. ~~AC24-146402~~ AC24-146402, Rule BART 62.296.340 (BART), F.A.C.; 40 CFR 60.83(a)2; 40 CFR 60, Appendix A, Method 9; Permit No. 0470002-055-AC]

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H.14. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. Parametric data recorded for the wet scrubber during each test shall be provided with the required test report. As necessary, EPA Methods 1-4 shall be conducted to support the other test methods.

[Rules 62-297.310(7)9., 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

CONTINUOUS MONITORING REQUIREMENTS

H.~~9~~15. Sulfur Dioxide. A continuous monitoring system for the measurement of sulfur dioxide shall be installed, calibrated, maintained, and operated. The pollutant gas used to prepare calibration gas mixtures under Performance Specification 2 and for calibration checks under 40 CFR 60.13(d), shall be sulfur dioxide (SO_2). Method 8 shall be used for conducting monitoring system performance evaluations under 40 CFR 60.13(c) except that only the sulfur dioxide portion of the Method 8 results shall be used. The span value shall be set at 1000 ppm of sulfur dioxide.

[40 CFR 60.84(a); Construction Permit No. AC24-146402]

H.~~10~~16. Conversion Factor. A conversion factor for the purpose of converting monitoring data into units of the applicable standard (kg/metric ton, lb/ton) shall be established. The conversion factor shall be determined, as a minimum, three times daily by measuring the concentration of sulfur dioxide entering the converter using suitable methods (e.g., the Reich test, National Air Pollution Control Administration Publication No. 999–AP–13) and calculating the appropriate conversion factor for each eight-hour period as follows:

$$CF = k[(1.000-0.015r)/(r-s)]$$

where:

CF = conversion factor (kg/metric ton per ppm, lb/ton per ppm).
k = constant derived from material balance. For determining CF in metric units, k=0.0653. For determining CF in English units, k=0.1306.
r = percentage of sulfur dioxide by volume entering the gas converter. Appropriate corrections must be made for air injection plants subject to the Administrator's approval.
s = percentage of sulfur dioxide by volume in the emissions to the atmosphere determined by the continuous monitoring system required under Condition H.9.

[40 CFR 60.84(b)]

H.~~11~~17. All conversion factors and values under **Condition H.~~10~~16.**, from which they were computed (i.e., CF, r, and s) shall be recorded.

[40 CFR 60.84(c)]

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H.~~12~~18. Sulfur Dioxide Alternative. Alternatively, a source that processes elemental sulfur or an ore that contains elemental sulfur and uses air to supply oxygen may use the following continuous emission monitoring approach and calculation procedures in determining SO_2 emission rates in terms of the standard. This procedure is not required, but is an alternative that would alleviate problems encountered in the measurement of gas velocities or production rate. Continuous emission monitoring systems for measuring SO_2, O_2, and CO_2 (if required) shall be installed, calibrated, maintained, and operated by the owner or operator and subjected to the certification procedures in Performance Specifications 2 and 3. The calibration procedure and span value for the SO_2 monitor shall be as specified in **Condition H.~~9~~15.** The span value for CO_2 (if required) shall be 10 percent and for O_2 shall be 20.9 percent (air). A conversion factor based on process rate data is not necessary. Calculate the SO_2 emission rate as follows:

$$Es=(CsS)/[0.265 - (0.0126\ \%O_2) - (A\ \%CO_2)]$$

where:

Es = emission rate of SO_2, kg/metric ton (lb/ton) of 100 percent of H_2SO_4 produced.
Cs = concentration of SO_2, kg/dscm (lb/dscf).
S = acid production rate factor, 368 dscm/metric ton (11,800 dscf/ton) of 100 percent H_2SO_4 produced.
$\%O_2$ = oxygen concentration, percent dry basis.
A = auxiliary fuel factor,
= 0.00 for no fuel.
= 0.0226 for methane.
= 0.0217 for natural gas.
= 0.0196 for propane.
= 0.0172 for No 2 oil.
= 0.0161 for No 6 oil.
= 0.0148 for coal.
= 0.0126 for coke.
$\%CO_2$ = carbon dioxide concentration, percent dry basis.

NOTE: It is necessary in some cases to convert measured concentration units to other units for these calculations: Use the following table for such conversions:

From—	To—	Multiply by—
g/scm	kg/scm	10^{-3}
mg/scm	kg/scm	10^{-6}
ppm (SO_2)	kg/scm	2.660×10^{-6}
ppm (SO_2)	lb/scf	1.660×10^{-7}

[40 CFR 60.84(d)]

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H.~~13~~19. Sulfur Dioxide Excess Emissions. For the purpose of reports under 40 CFR 60.7(c), periods of excess emissions shall be all three-hour periods (or the arithmetic average of three consecutive one-hour periods) during which the integrated average sulfur dioxide emissions exceed the applicable standards under **Condition H.~~3~~6**.

[40 CFR 60.84(e)]

H.20. Wet Scrubber Parameters: For each wet scrubber, the permittee shall install, operate and maintain devices to continuously monitor the scrubber water flow rate, the pressure drop across the scrubber and the fan amperage. Such devices shall be calibrated, fully functional and in operation before conducting the initial compliance tests. The scrubber parameters shall be continuously monitored and manually recorded at least once during each eight-hour block of operation. Alternatively, the parametric data may be continuously recorded. During each required compliance test, such data shall be recorded at 15-minute intervals.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

H.21. CEMS Compliance Demonstration: The permittee shall operate and maintain each SO_2 emissions CEMS to demonstrate compliance with the BART SO_2 standards specified in this permit, which requires the data to also be reduced to 24-hour rolling averages. Each CEMS shall be certified to meet Performance Specification 2 and Performance Specification 3 in Appendix B of 40 CFR 60 and the quality assurance procedures specified in Appendix F of 40 CFR 60.

[Rules 62-296.340 (BART) and 62-4.070(3), F.A.C.; Permit No. 0470002-055-AC]

RECORDKEEPING

H.22. Wet Scrubber Records: The permittee shall maintain records on site of the scrubber water flow rate and the pressure drop across the scrubber. In addition, the following vendor design information shall be maintained on site for each wet scrubber: exhaust flow rate; scrubber water flow rate, scrubber pressure drop, dust inlet loading, dust outlet loading and control efficiency.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

COMMON CONDITIONS - F.A.C. TEST REQUIREMENTS

H.~~14~~23. This emissions unit is also subject to applicable F.A.C. Test Requirements in Subsection FF.

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

E.U. ID No.	Brief Description
022	"D" Sulfuric Acid Plant

"D" Sulfuric Acid Plant is a double absorption process that produces sulfuric acid and controls sulfur dioxide (SO_2) emissions. This emissions unit has a Brinks mist eliminator to control sulfuric acid mist (SAM). CAM does not apply for sulfur dioxide for this emissions unit.

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

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

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

I.1. Permitted Capacity. The production rate shall not exceed 2300 TPD expressed as 100 percent H_2SO_4 or 95.83 TPH.

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

I.2. Hours of Operation. The hours of operation for this emissions unit is allowed to operate continuously (8760 hours/year (8784 in any Leap Year).

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

~~**EMISSION LIMITATIONS**~~
CONTROL EQUIPMENT AND ~~STANDARDS~~METHODS

I.3. Wet Scrubbers: The wet scrubber controls shall be operated and maintained to effectively control particulate matter from each of the emissions points identified above for the regulated emissions units. The wet scrubber controls on the "A" and "B" DFP Plants (EU-003 and EU-038) shall also be operated and maintained to effectively control sulfur dioxide.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.]

I.4. General Best Operational Practices: Best operational practices to minimize leaks of sulfur dioxide and sulfur trioxide, or other fugitive process emissions shall be adhered to and shall include regular inspections and prompt repair or correction of any leaks or other fugitive emissions.

[Rule 62-296.320, F.A.C.]

I.5. Best Operational Startup Practices for Sulfuric Acid Plants: Sulfuric acid plants are authorized for excess emissions from startup for a period of three consecutive ours provided best operational practices to minimize

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emissions are adhered to in accordance with the agreement titled "Best Operational Startup Practices for Sulfuric Acid Plants" attached to this permit as Appendix BOP

[Rule 62-210.700, F.A.C., 40 CFR 60.7]

EMISSION LIMITATIONS AND STANDARDS

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

{Permitting Note: Unless otherwise specified, the averaging times for these conditions are based on the specified averaging time of the applicable test method.}
~~{Permitting note: Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}~~

~~*{Permitting Note: Unless otherwise specified, the averaging times for these conditions are based on the specified averaging time of the applicable test method.}*~~

I.~~3~~6. Sulfur Dioxide.

(a) Sulfur Dioxide Emissions shall not exceed 2 kg per metric ton of acid produced (4 lb per ton), the production being expressed as 100 percent H_2SO_4, ~~383.33~~335.4 lbs/hr ~~and 1679.00 TPY.~~

[Rule 62-204.800(7)(b)10., F.A.C.; 40 CFR 60.82(a~~)]~~); Air Construction Permit 0470002-055-AC]

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(b) Sulfur Dioxide emissions shall not exceed 3.5 lb/ton of 100% sulfuric acid produced (AP) based on 24-hour rolling CEMS average. No stack testing is required.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

I.47. Sulfuric Acid Mist (SAM). SAM emissions, expressed as H_2SO_4, shall not exceed 0.075 kg per metric ton of acid produced (0.15 lb per ton), the production being expressed as 100 percent H_2SO_4, 14.38 lbs/hr and 63.00 TPY.

[Rule 62-204.800(7)(b)10., F.A.C.; 40 CFR 60.83(a)(1)]

I.58. Nitrogen Oxides Emissions. Nitrogen Oxides Emissions (expressed as NO_2) shall not exceed 0.14 lb/ton of 100% sulfuric acid produced.

[Air Construction Permit 0470002-055-AC; Rule 62-4.070(3), F.A.C.]

I.9. Visible Emissions. Visible Emissions shall not exceed 10% opacity as determined by EPA Method 9. Opacity observations shall be made at the point of greatest opacity in that portion of the plume where condensed water vapor is not present.

[Rule 62-204.800(7)(b)10., F.A.C.; 40 CFR 60.83(a)(2)]); Rule 62-296.340 (BART), F.A.C.; and 40 CFR 60, Appendix A, Method 9; Permit No. 0470002-055-AC]

Test Methods and Procedures

TEST METHODS AND PROCEDURES

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

I.610. Sulfur Dioxide. The following procedures and test methods shall be used to determine sulfur dioxide emissions. A compliance test shall be conducted on an annual basis, once each federal fiscal year: (October 1st – September 30th):

(a
(a) EPA Method 6/6C shall be used to demonstrate compliance witht eh corresponding SO2 emission standard;

(b) The test methods in 40 CFR Appendix A or other methods and procedures as specified in this condition, except as provided in 40 CFR 60.8(b).

(bc) (1) The emission rate (E) of sulfur dioxide shall be computed for each run using the following equation:

E=(CQsd)/(PK)

where:

E = emission rate of SO_2 kg/metric ton (lb/ton) of 100 percent H_2SO_4 produced.
C = concentration of SO_2, g/dscm (lb/dscf).
Qsd = volumetric flow rate of the effluent gas, dscm/hr (dscf/hr).

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P = production rate of 100 percent H_2SO_4, metric ton/hr (ton/hr).
K = conversion factor, 1000 g/kg (1.0 lb/lb).

(2) Method 8 shall be used to determine the Sulfur Dioxide concentration (C) and the volumetric flow rate (Qsd) of the effluent gas. The moisture content may be considered to be zero. The sampling time and sample volume for each run shall be at least 60 minutes and 1.15 dscm (40.6 dscf).

(3) Suitable methods shall be used to determine the production rate (P) of 100 percent H_2SO_4 for each run. Material balance over the production system shall be used to confirm the production rate.

(4) N/A

(~~e~~d) The following may be used as alternatives to the reference methods and procedures specified in this condition:

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~~**I.6. continued:**~~

(1) If a source processes elemental sulfur or an ore that contains elemental sulfur and uses air to supply oxygen, the following procedure may be used instead of determining the volumetric flow rate and production rate:

(i) The integrated technique of Method 3 is used to determine the O_2 concentration and, if required, CO_2 concentration.

(ii) The SO_2 emission rate is calculated as described in **Condition I.~~12~~18**. substituting the acid mist concentration for Cs as appropriate.

[40 CFR 60.85(a),(b),(c); Rule 62-204.800(7)(b)10., F.A.C.; Rule 62-297.401, F.A.C.~~]~~. ; Permit No. 0470002-055-AC]

I.~~7~~11. Sulfuric Acid Mist. The following procedures and test methods shall be used to determine sulfuric acid mist. A compliance test shall be conducted on an annual basis, once each federal fiscal year:

(a) The test methods in 40 CFR Appendix A or other methods and procedures as specified in this condition, except as provided in 40 CFR 60.8(b).

(b) (1) The emission rate (E) of sulfuric acid mist shall be computed for each run using the following equation:

E=(CQsd)/(PK)
where:
E = emission rate of acid mist kg/metric ton (lb/ton) of 100 percent H_2SO_4 produced.
C = concentration of acid mist, g/dscm (lb/dscf).
Qsd = volumetric flow rate of the effluent gas, dscm/hr (dscf/hr).
P = production rate of 100 percent H_2SO_4, metric ton/hr (ton/hr).
K = conversion factor, 1000 g/kg (1.0 lb/lb).

(2) Method 8 shall be used to determine the Sulfuric Acid Mist concentration (C) and the volumetric flow rate (Qsd) of the effluent gas. The moisture content may be considered to be zero. The sampling time and sample volume for each run shall be at least 60 minutes and 1.15 dscm (40.6 dscf).

(3) Suitable methods shall be used to determine the production rate (P) of 100 percent H_2SO_4 for each run. Material balance over the production system shall be used to confirm the production rate.

(4) N/A

(c) The following may be used as alternatives to the reference methods and procedures specified in this condition:

(1) If a source processes elemental sulfur or an ore that contains elemental sulfur and uses air to supply oxygen, the following procedure may be used instead of determining the volumetric flow rate and production rate:

(i) The integrated technique of Method 3 is used to determine the O_2 concentration and, if required, CO_2 concentration.

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(ii) The acid mist emission rate is calculated as described in **Condition I.~~12~~18**. Substituting the acid mist concentration for C as appropriate.

[40 CFR 60.85(a),(b),(c); Rule 62-204.800(7)(b)10., F.A.C.; Rule 62-297.401, F.A.C.]

I.~~8~~12. Nitrogen Oxides Emissions Compliance with nitrogen oxides emissions shall be determined by EPA Method 7E upon request by the Department.

[Air Construction Permit 0470002-55-AC; Rule 62-4.070(3), F.A.C.]

I.13. Visible Emissions. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year (October 1st – September 30th). Opacity observations shall be made at the point of greatest opacity in that portion of the plume where condensed water vapor is not present.

[Rule 62-204.800(7)(b)10., F.A.C.; Rule 62-297.310(7)(a)4.a., F.A.C.; 40 CFR 60.85(b)(4); Rule 62-297.401, F.A.C.~~]~~,; Rule BART 62.296.340 (BART), F.A.C.; 40 CFR 60.83(a)2; 40 CFR 60, Appendix A, Method 9; Permit No. 0470002-055-AC]

I.14. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. Parametric data recorded for the wet scrubber during each test shall be provided with the required test report. As necessary, EPA Methods 1-4 shall be conducted to support the other test methods.

[Rules 62-297.310(7)9., 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

CONTINUOUS MONITORING REQUIREMENTS

I.~~9~~15. Sulfur Dioxide. A continuous monitoring system for the measurement of sulfur dioxide shall be installed, calibrated, maintained, and operated. The pollutant gas used to prepare calibration gas mixtures under Performance Specification 2 and for calibration checks under 40 CFR 60.13(d), shall be sulfur dioxide (SO_2). Method 8 shall be used for conducting monitoring system performance evaluations under 40 CFR 60.13(c) except that only the sulfur dioxide portion of the Method 8 results shall be used. The span value shall be set at 1000 ppm of sulfur dioxide.

[40 CFR 60.84(a)]

I.~~10~~16. Conversion Factor. A conversion factor for the purpose of converting monitoring data into units of the applicable standard (kg/metric ton, lb/ton) shall be established. The conversion factor shall be determined, as a minimum, three times daily by measuring the concentration of sulfur dioxide entering the converter using suitable methods (e.g., the Reich test, National Air Pollution Control Administration Publication No. 999–AP–13) and calculating the appropriate conversion factor for each eight-hour period as follows:

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CF = k[(1.000 - 0.015r)/(r - s)]

where:

CF = conversion factor (kg/metric ton per ppm, lb/ton per ppm).
k = constant derived from material balance. For determining CF in metric units, k=0.0653. For determining CF in English units, k=0.1306.
r = percentage of sulfur dioxide by volume entering the gas converter. Appropriate corrections must be made for air injection plants subject to the Administrator's approval.
s = percentage of sulfur dioxide by volume in the emissions to the atmosphere determined by the continuous monitoring system required under **Condition I.~~9~~15.**

[40 CFR 60.84(b)]

I.~~11~~17. All conversion factors and values under **Condition I.~~10~~16.,** from which they were computed (i.e., CF, r, and s) shall be recorded.

[40 CFR 60.84(c)]

Draft/Proposed

I.~~12~~18. Sulfur Dioxide Alternative. Alternatively, a source that processes elemental sulfur or an ore that contains elemental sulfur and uses air to supply oxygen may use the following continuous emission monitoring approach and calculation procedures in determining SO_2 emission rates in terms of the standard. This procedure is not required, but is an alternative that would alleviate problems encountered in the measurement of gas velocities or production rate. Continuous emission monitoring systems for measuring SO_2, O_2, and CO_2 (if required) shall be installed, calibrated, maintained, and operated by the owner or operator and subjected to the certification procedures in Performance Specifications 2 and 3. The calibration procedure and span value for the SO_2 monitor shall be as specified in **Condition I.~~9~~15.** The span value for CO_2 (if required) shall be 10 percent and for O_2 shall be 20.9 percent (air). A conversion factor based on process rate data is not necessary. Calculate the SO_2 emission rate as follows:

$$Es=(CsS)/[0.265 - 0.0126\ \%O_2) - (A\ \%CO_2)]$$

where:

Es = emission rate of SO_2, kg/metric ton (lb/ton) of 100 percent of H_2SO_4 produced.
Cs = concentration of SO_2, kg/dscm (lb/dscf).
S = acid production rate factor, 368 dscm/metric ton (11,800 dscf/ton) of 100 percent H_2SO_4 produced.
$\%O_2$ = oxygen concentration, percent dry basis.
A = auxiliary fuel factor,
= 0.00 for no fuel.
= 0.0226 for methane.
= 0.0217 for natural gas.
= 0.0196 for propane.
= 0.0172 for No 2 oil.
= 0.0161 for No 6 oil.
= 0.0148 for coal.
= 0.0126 for coke.
$\%CO_2$ = carbon dioxide concentration, percent dry basis.

NOTE: It is necessary in some cases to convert measured concentration units to other units for these calculations: Use the following table for such conversions:

From—	To—	Multiply by—
g/scm	kg/scm	10^{-3}
mg/scm	kg/scm	10^{-6}
ppm (SO_2)	kg/scm	2.660×10^{-6}
ppm (SO_2)	lb/scf	1.660×10^{-7}

[40 CFR 60.84(d)]

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I.~~13~~19. Sulfur Dioxide Excess Emissions. For the purpose of reports under 40 CFR 60.7(c), periods of excess emissions shall be all three-hour periods (or the arithmetic average of three consecutive one-hour periods) during which the integrated average sulfur dioxide emissions exceed the applicable standards under **Condition I.~~3~~6.**

[40 CFR 60.84(e)]

I.20. Wet Scrubber Parameters: For each wet scrubber, the permittee shall install, operate and maintain devices to continuously monitor the scrubber water flow rate, the pressure drop across the scrubber and the fan amperage. Such devices shall be calibrated, fully functional and in operation before conducting the initial compliance tests. The scrubber parameters shall be continuously monitored and manually recorded at least once during each eight-hour block of operation. Alternatively, the parametric data may be continuously recorded. During each required compliance test, such data shall be recorded at 15-minute intervals.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

I.21. CEMS Compliance Demonstration: The permittee shall operate and maintain each SO_2 emissions CEMS to demonstrate compliance with the BART SO_2 standards specified in this permit, which requires the data to also be reduced to 24-hour rolling averages. Each CEMS shall be certified to meet Performance Specification 2 and Performance Specification 3 in Appendix B of 40 CFR 60 and the quality assurance procedures specified in Appendix F of 40 CFR 60.

[Rules 62-296.340 (BART) and 62-4.070(3), F.A.C.; Permit No. 0470002-055-AC]

RECORDKEEPING

I.22. Wet Scrubber Records: The permittee shall maintain records on site of the scrubber water flow rate and the pressure drop across the scrubber. In addition, the following vendor design information shall be maintained on site for each wet scrubber: exhaust flow rate; scrubber water flow rate, scrubber pressure drop, dust inlet loading, dust outlet loading and control efficiency.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

COMMON CONDITIONS - F.A.C. TEST REQUIREMENTS

I.~~14~~23. This emissions unit is also subject to applicable F.A.C. Test Requirements in Subsection FF.

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

E.U. ID No.	**Brief Description**
032	Z-Train – No. 2 MAP/DAP Plant

Z-Train (#2 MAP/DAP Plant) with two emissions points (EP). The first EP is the main part of MAP/DAP process which is controlled by several cyclones followed by several cyclonic and venturi scrubbers (EP TG). The cooler (EP C) is controlled by a cyclone and a venturi scrubber. CAM does not apply for this emissions unit. The permittee conducted testing on the pond water scrubbers for CAM applicability for particulate matter. Fluoride emissions are covered by the 40 CFR 63 Subpart BB and testing was done by the permittee to show the pond water scrubbers are not designed for PM control.

{Permitting note(s): These emissions units are regulated under NSPS - 40 CFR 60, Subpart V, Standards of Performance for the Phosphate Fertilizer Industry: Diammonium Phosphate Plants, adopted and incorporated by reference in Rule 62-204.800(7)(b)28., F.A.C.; Rule 62-212.300, F.A.C., General Preconstruction Review Requirements; 62-212.400, F.A.C., Prevention of Significant Deterioration; Rule 62-296.320, F.A.C., General Pollutant Emission Limiting Standards; and Rule 62-296.403, F.A.C., Phosphate Processing; 40 CFR 63, Subpart A - General Provisions; 40 CFR 63, Subpart BB - National Emission Standards for Hazardous Air Pollutants From Phosphate Fertilizers Production Plants. **The Part 40 CFR 63 Subparts A and BB take precedence, however these units are subject to all applicable State Implementation Plan (SIP) rules if these units are out of compliance with the NESHAP**}.

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

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

J.1. Permitted Capacity. The P_2O_5 feed shall not exceed 45.7 tons per hour daily average and 362,737 TPY P_2O_5 input, 12-month rolling total.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Construction Permit No. 0470002-032-AC; Construction Permit No. 0470002-034-AC; and 0470002-079-AC]

J.2. Methods of Operation are as follows:

Mode 1 - DAP (Diammonium Phosphate) produced by Split Acid (30% & 50% P_2O_5 input) phosphoric acid.
Mode 2 - MAP (Monoammonium Phosphate) produced by Split Acid (30% & 50% P_2O_5 input) phosphoric acid.
Mode 3 - DAP (Diammonium Phosphate) produced by 40% P_2O_5 input phosphoric acid.
Mode 4 - MAP (Monoammonium Phosphate) produced by 40% P_2O_5 input phosphoric acid.
Mode 5 - MAP produced by reacting ammonia and acid in two pipe reactors. The Z-Train has been modified to allow the producing of granular MAP using a pipe reactor as an alternate to the tank reactor.

~~Process fuels~~ [Rule 62-213.410, F.A.C.]

J.3. Methods of Operation. Natural gas shall be fired ~~are~~as the primary fuel. If the vendor is unable to provide natural gas, fuel oil with a maximum sulfur content of 1.~~00%,~~0% by weight or on-~~spec~~specification used oil with ~~a~~ maximum sulfur content of 1.~~00%.~~0% by weight may fired as backup fuel.

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

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C. .; Permit No. 0470002-055-AC]

J.~~3~~4. Hours of Operation. ~~The hours of operation for this~~ This emissions unit ~~shall~~ is allowed to operate continuously 8760 hours/year (8784 in any Leap Year).

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

CONTROL EQUIPMENT AND METHODS

J.5. Wet Scrubbers: The wet scrubber controls shall be operated and maintained to effectively control particulate matter from each of the emissions points identified above for the regulated emissions units. The wet scrubber controls on the "A" and "B" DFP Plants (EU-003 and EU-038) shall also be operated and maintained to effectively control sulfur dioxide.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

J.6. General Best Operational Practices: Best operational practices to minimize leaks of sulfur dioxide and sulfur trioxide, or other fugitive process emissions shall be adhered to and shall include regular inspections and prompt repair or correction of any leaks or other fugitive emissions.

[Rule 62-296.320, F.A.C.; Permit No. 0470002-055-AC]

EMISSION LIMITATIONS AND STANDARDS

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

{Permitting Note: Unless otherwise specified, the averaging times for these conditions are based on the specified averaging time of the applicable test method.}

ALL MODES:

From EP (TG):

J.~~4~~7. Total Fluorides. Total Fluoride emissions shall not exceed 30 grams/metric ton of equivalent P_2O_5 feed (0.060 lb/ton); 2.18 lbs/hr and 9.50 TPY.

[Rule 62-204.800(7)27., F.A.C.; 40 CFR 60.222, 40 CFR 63.622(a)]

J.~~5~~8. Particulate Matter. Particulate Matter Emissions shall not exceed ~~47.37~~9.2 lbs/hr ~~and 206.90 TPY.~~as determined by EPA Method 5

[Rule 62-296.320(4)(a), F.A.C.~~]~~.; Air Construction Permit 0470002-055-AC]

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J.~~6~~9. Sulfur Dioxide.
(a) Sulfur Dioxide Emissions shall not exceed 11.80 lbs/hr and 51.50 TPY.

[Construction Permit No. AC24-56215/ PSD-FL-083]

(b) The firing of the fuels as stated in Condition J.~~7~~3 shall be used to control sulfur dioxide emissions.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

J.10. Visible Emissions. Visible Emissions from the dryer shall not ~~be equal to or greater than~~exceed 20% opacity. Opacity observations shall be made at the point of greatest opacity in that portion of the plume where condensed water vapor is not present.

[Rule 62-296.320(4)(b), F.A.C.~~]~~.; Rule 62-296.340 (BART), F.A.C.; and 40 CFR 60.83(a)2 and 40 CFR 60, Appendix A, Method 9; Permit No. 0470002-055-AC]

J.11. Nitrogen Oxides Emissions. Nitrogen oxides emissions (expressed as NO_2) shall be controlled by the inherent combustion design of the existing unit and the firing of the natural gas as the primary fuel.

[Rule 62-4.070(3), F.A.C.; Permit No. 0470002-055-AC]

From EP (C):

J.~~8~~12. Visible Emissions. Visible Emissions from the cooler shall ~~not be equal to or greater than~~exceed 20% opacity. Opacity observations shall be made at the point of greatest opacity in that portion of the plume where condensed water vapor is not present.

[Rule 62-296.320(4)(b), F.A.C.; Construction Permit No. 0470002-032-AC~~]~~; .; Rule 62-296.340 (BART), F.A.C.; and 40 CFR 60.83(a)2 and 40 CFR 60, Appendix A, Method 9; Permit No. 0470002-055-AC]

J.13. Nitrogen Oxides Emissions. Nitrogen oxides emissions (expressed as NO_2) shall be controlled by the inherent combustion design of the existing unit and the firing of the natural gas as the primary fuel.

[Rule 62-4.070(3), F.A.C.; Permit No. 0470002-055-AC]

OPERATING REQUIREMENTS

J.~~9~~14. Scrubber Parameter Daily Averages. The permittee shall maintain daily averages of the pressure drop across each scrubber and of the flow rate of the scrubbing liquid to each scrubber within the allowable ranges established pursuant the requirements of **Condition HH.6.(1) or (2).**

[Rule 62-204.800, F.A.C.; 40 CFR 63.624]

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MONITORING REQUIREMENTS

J.~~10~~15. Phosphorus-bearing Feed Material. The Permittee shall install, calibrate, maintain, and operate a monitoring system, which can be used to determine and permanently record the mass flow of phosphorus-bearing feed material to the process. The monitoring system shall have an accuracy of ±5 percent over its operating range.

[Rule 62-204.800, F.A.C.; 40 CFR 60.223(a)]

J.~~11.~~ 16. P_2O_5 Feed. The Permittee shall maintain a daily record of equivalent P_2O_5 feed.

[Rule 62-204.800, F.A.C.; 40 CFR 60.223(b)]

J.~~12.a~~17. Scrubber Pressure Drop.

(a) The Permittee shall install, calibrate, maintain, and operate a monitoring system which continuously measures and permanently records the pressure drop across each scrubber in the process scrubbing system in 15-minute block averages. The monitoring system shall be certified by the manufacturer to have an accuracy of ±5 percent over its operating range.

[Rule 62-204.800, F.A.C.; 40 CFR 60.223(c)]

~~J.12.~~(b~~.~~) The tail gas scrubber pressure drop shall be measured and reported based on the entire scrubber measurements and not separated by sections.

[Construction Permit No. 0470002-079-AC]

J.~~13~~18. The Permittee shall meet the 40 CFR 63 Subpart BB monitoring requirements stated in **Common Conditions HH.1 – HH.3.**

J.19. Wet Scrubber Parameters: For each wet scrubber, the permittee shall install, operate and maintain devices to continuously monitor the scrubber water flow rate, the pressure drop across the scrubber and the fan amperage. Such devices shall be calibrated, fully functional and in operation before conducting the initial compliance tests. The scrubber parameters shall be continuously monitored and manually recorded at least once during each eight-hour block of operation. Alternatively, the parametric data may be continuously recorded. During each required compliance test, such data shall be recorded at 15-minute intervals.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

TEST METHODS AND PROCEDURES

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

ALL MODES:

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From EP (TG):

J.~~14~~20. Total Fluorides. (a) In conducting the performance tests required in § 60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in § 60.8(b).

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J.~~14~~20. continued:

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

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

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

where:

E=emission rate of total fluorides, g/Mg (lb/ton) of equivalent P_2O_5 feed.
Csi=concentration of total fluorides from emission point "i," mg/dscm (gr/dscf).
Qsdi=volumetric flow rate of effluent gas from emission point "i," dscm/hr (dscf/hr).
N=number of emission points associated with the affected facility.
P=equivalent P_2O_5 feed rate, Mg/hr (ton/hr).
K=conversion factor, 1000 mg/g (7,000 gr/lb).

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

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

P=Mp Rp

where:

Mp=total mass flow rate of phosphorus-bearing feed, Mg/hr (ton/hr).
Rp= P_2O_5 content, decimal fraction.

(i) The accountability system of § 60.223(a) shall be used to determine the mass flow rate (Mp) of the phosphorus-bearing feed.

(ii) The Association of Official Analytical Chemists (AOAC) Method 9 (incorporated by reference -- see §60.17) shall be used to determine the P_2O_5 content (Rp) of the feed.

[Rule 62-204.800, F.A.C.; 40 CFR 60.224; Rule 62-296.403(3), F.A.C.]

J.~~15~~21. <u>Total Fluorides</u>. The Permittee shall meet the 40 CFR 63 Subpart BB performance testing requirements stated in **Common Conditions HH.5 – HH.7.**

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J.~~16~~22. Particulate Matter. Particulate Matter emissions stack test method shall be EPA Method 5 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year~~.~~ (October 1st – September 30th).

[Rule 62-296.320(4)(a), F.A.C.; Rule 62-297.310(7)(a)4.b., F.A.C.; Rule 62-297.401, F.A.C.~~]~~.; Rule 62-204.800, 40 CFR 60, Appendix A; Permit No. 0470002-055-AC]

J.~~17~~23. Sulfur Dioxide. Sulfur Dioxide Emissions in lieu of stack testing shall comply with the applicable requirements in Rule 62-297.440(1), F.A.C. or maintain a record of acceptable, certified analyses of all fuel oil fired and report annually prior to March 1 of each year.

J.24. Visible Emissions. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year.~~**J.18. Visible Emissions**. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year.~~

~~[Rule 62-296.320(4)(b), F.A.C.; Rule 62-~~ Opacity observations shall be made at the point of greatest opacity in that portion of the plume where condensed water vapor is not present.

[Rule 62-297.310(7)(a)4.a., F.A.C.; Rule 62-297.401, F.A.C.~~]~~.; Rule 62.296.340 (BART), F.A.C.; 40 CFR 60, Appendix A, Method 9]

From EP (C):

J.~~19~~25. Visible Emissions. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year. Opacity observations shall be made at the point of greatest opacity in that portion of the plume where condensed water vapor is not present.

[Rule 62-296.320(4)(b), F.A.C.; Rule 62-297.310(7)(a)4.a., F.A.C.; Rule 62-297.401, F.A.C.~~]~~.; Rule 62.296.340 (BART), F.A.C.; 40 CFR 60.83(a)2; 40 CFR 60, Appendix A, Method 9]

J.26. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. Parametric data recorded for the wet scrubber during each test shall be provided with the required test report. As necessary, EPA Methods 1-4 shall be conducted to support the other test methods.

[Rules 62-297.310(7)9., 62-4.070(3), and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

NOTIFICATION, RECORDKEEPING, REPORTING REQUIREMENTS

J.~~20~~27. The Permittee shall meet the 40 CFR 63 Subpart BB notification, recordkeeping, and reporting requirements stated in **Common Conditions HH.8. –HH.10.**

J.~~21~~28. This emissions unit is subject to specific requirements of 40 CFR 63 Subpart BB, Appendix A to Subpart BB – Applicability to General Provisions to Subpart BB, and alternative MACT monitoring plan (Administrative

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Order No. 04-I-AP, dated October 4, 2004). The owner or operator is responsible for remaining in compliance with any updates made to Subpart A or BB. This EU is subject to facility Wide Condition no. 10.

[40 CFR 63-Subpart A; 40 CFR 63-Subpart BB; and Administrative Order No. 04-I-AP, Alternate MACT Monitoring Plan]

J.29. Wet Scrubber Records: The permittee shall maintain records on site of the scrubber water flow rate and the pressure drop across the scrubber. In addition, the following vendor design information shall be maintained on site for each wet scrubber: exhaust flow rate; scrubber water flow rate, scrubber pressure drop, dust inlet loading, dust outlet loading and control efficiency.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

EXEMPTION FROM NEW SOURCE PERFORMANCE STANDARDS.

J.~~22~~30. This emissions unit is exempted from any otherwise applicable new source performance standard contained in 40 CFR Part 60, Subpart V. To be exempt, a source must have a current operating permit pursuant to Title V of the Act and the source must be in compliance with all requirements of 40 CFR 63, Subpart BB. For each affected source, this exemption is effective upon the date that the owner or operator demonstrates to the Administrator that the requirements of **Conditions J.~~9~~14., HH.1. through HH.7.,** have been met.

{Permitting Note: Department determined that the requirements for exemption have been met by the facility as of 8/16/06. In accordance with this regulation, if the source is not in compliance with all requirements of 40 CFR 63, Subpart BB, the exemption from any otherwise applicable new source performance standard contained in 40 CFR Part 60, Subpart V is no longer valid.}

[40 CFR 63.631]

~~Common Conditions~~COMMON CONDITIONS - On-Spec Used Oil/Lead

J.~~23~~31. This emissions unit is also subject to the On-Spec Used Oil/Lead conditions in Subsection EE**.**

COMMON CONDITIONS - F.A.C. TEST REQUIREMENTS

J.~~24~~32. This emissions unit is also subject to applicable F.A.C. Test Requirements in Subsection FF.

COMMON CONDITIONS – GENERAL PROVISIONS OF 40 CFR 63

J.~~25~~33. This emissions unit is also subject to the applicable requirements of 40 CFR 63 Subpart A.

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

E.U. ID No.	Brief Description
038	"B" Defluorinated Phosphate (DFP) Plant

"B" DFP Plant emits fluoride and particulate matter emissions, and is controlled by a Cross-Flow Packed Scrubber (13B). CAM applies for particulate matter, sulfur dioxide and fluoride.

{Permitting note: This emissions unit is regulated under Rule 62-296.320, F.A.C., General Pollutant Emission Limiting Standards; Compliance Assurance Monitoring (CAM), adopted and incorporated by reference in Rule 62-204.800, F.A.C.}

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

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

N.0.a. In accordance with Rule 62-210.300(2)(a)3.c., F.A.C., the operation permit for an emissions unit which has been shut down for five years or more prior to the expiration date of the current operation permit shall be renewed for a maximum period not to exceed ten years from the date of shutdown, even if the emissions unit is not maintained in operational condition, provided the conditions given in sub-subparagraph 62-210.300(2)(a)3.b., F.A.C., are met and the owner or operator demonstrates to the Department that failure to renew the permit would constitute a hardship, which may include economic hardship:

(I) The owner or operator of the emissions unit demonstrates to the Department that the emissions unit may need to be reactivated and used, or that it is the owner's or operator's intent to apply to the Department for a permit to construct a new emissions unit at the facility before the end of the extension period; and

(II) The owner or operator of the emissions unit agrees to and is legally prohibited from providing the allowable emission permitted by the renewed permit as an emissions offset to any other person under Rule 62-212.500, F.A.C.; and

(III) The emissions unit was operating in compliance with all applicable rules as of the time the source was shut down.

***EU038 was last operated in July 2005. Therefore, Permit No. 0470002-~~077~~087-AV extends EU038 expiration date only until July 2015.**

[Rule 62-210.300(2)(a)3.b and (a)3.c.]

N.0.b. Upon demonstration of compliance with Air Construction Permit No. 0470002-055-AC and the milestones identified in Compliance Plan, Appendix CP-5, the permittee shall operate the referenced emissions unit in accordance with the conditions specified below.

[Rule 62-213.440(2), F.A.C.]

N.1. Permitted Capacity. The rate shall not exceed the Maximum 12-MRA Hourly Rate = 8.25 tons of product or Maximum Daily 1-Hour Average Rate = 10 tons of product.

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12-MRA (MRA - Monthly Rolling Average) Hourly Rate Maximum shall not be exceeded by the 12-MRA hourly rate calculated by averaging each monthly hourly average with the previous 11 monthly hourly averages.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Permit No. 0470002-034-AC]

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N.2. Methods of Operation. The authorized fuel to be fired shall be only natural gas.

[Rule 62-213.410, F.A.C.~~]~~. .; Rule 62-296.340(BART), F.A.C.; Permit No. 0470002-055-AC]

N.3. Hours of Operation. ~~The hours of operation for this~~ This emissions unit ~~shall~~ is allowed to operate continuously 8760 hours/year (8784 in any Leap Year).

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

CONTROL EQUIPMENT AND METHODS

N.4. Wet Scrubbers: The wet scrubber controls shall be operated and maintained to effectively control particulate matter from each of the emissions points identified above for the regulated emissions unit. The wet scrubber controls shall also be operated and maintained to effectively control sulfur dioxide.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

N.5. General Best Operational Practices: Best operational practices to minimize leaks of sulfur dioxide and sulfur trioxide, or other fugitive process emissions shall be adhered to and shall include regular inspections and prompt repair or correction of any leaks or other fugitive emissions.

[Rule 62-296.320, F.A.C.; Permit No. 0470002-055-AC]

EMISSION LIMITATIONS AND STANDARDS

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

{Permitting Note: Unless otherwise specified, the averaging times for these conditions are based on the specified averaging time of the applicable test method.}

~~**EMISSION LIMITATIONS AND STANDARDS**~~

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

~~*{Permitting Note: Unless otherwise specified, the averaging times for these conditions are based on the specified averaging time of the applicable test method.}*~~

N.~~4~~6. Total Fluoride. Fluoride emissions shall not exceed 2.5 lbs/hr and 10.5 TPY.

[Rule 62-296.403(2), F.A.C.; Construction Permit No. AC24-255802]

N.~~5~~7. Particulate Matter. Particulate Matter Emissions shall not exceed ~~14.05~~12.8 lbs/hr ~~and 59.00 TPY.~~hr as determined by EPA Method 5.

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[Rule 62-296.320(4)(a), F.A.C.; Construction Permit No. AC24-255802~~]~~; Air Construction Permit 0470002-055-AC; Rule 62-296.340(BART);]

N.~~6~~8. Sulfur Dioxide. Sulfur Dioxide Emissions shall not exceed ~~8.00~~2.0 lbs/hr ~~and 35.04 TPY~~as determined by EPA Method 6/6C.

[Permit AC24-255802~~]~~; Air Construction Permit 0470002-055-AC; Rule 62-296.340(BART);]

N.~~7~~9. Visible Emissions. Visible Emissions are limited to 40% opacity.

[Rule 62-296.320(4)(b)2., F.A.C.; Construction Permit No. AC24-255802; Construction Permit No. AC24-15083 amendment dated 6/28/88]

N.10. Nitrogen Oxides Emissions. Nitrogen oxides emissions (expressed as NO_2) shall be controlled by the inherent combustion design of the existing unit and the firing of the natural gas as the primary fuel.

[Rule 62-4.070(3), F.A.C.; Permit No. 0470002-055-AC]

TEST METHODS AND PROCEDURES

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

~~**TEST METHODS AND PROCEDURES**~~

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

N.~~8~~11. Total Fluoride. Fluoride emissions stack test method shall be EPA Method 13A or 13B incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year.

[Rule 62-296.403(3), F.A.C.; Rule 62-297.401, F.A.C.; Construction Permit No. AC24-255802]

N.~~9~~12. Particulate Matter. Particulate Matter Emissions stack test method shall be EPA Method 5 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year~~.~~ (October 1st – September 30th).

[Rule 62-296.320(4)(a), F.A.C.; Rule 62-297.401, F.A.C.; Construction Permit No. AC24-255802~~]~~; Permit No. 0470002-055-AC; .; Rule 62-204.800, 40 CFR 60, Appendix A]]

N.~~10~~13. Sulfur Dioxide. Sulfur Dioxide Emissions testing shall comply with the applicable ~~in~~ requirements in Rule 62-297.401(6), F.A.C. and be performed ~~every 5 years prior to operation permit renewal. The 5-year~~annually, once each federal fiscal year ~~testing frequency is justified by the low emission rate documented in previous emissions tests. The applicant has consistently presented test results that are more than 97% below the applicable standards. Furthermore, in accordance with Rule 62-297.310(7)(a)4.b., F.A.C., an annual Sulfur~~

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~~Dioxide compliance test is required if there is an applicable standard and if the emissions unit has a potential to emit 100 tons per year or greater. The permitted Sulfur Dioxide limit for Emissions Unit Number 038 is 8.00 pounds per hour and 35.04 tons per year.~~(October 1st – September 30th).

[Air Construction Permit No. 0470002-040-AC~~]~~; Permit No. 0470002-055-AC, 40 CFR 60, Appendix A; Rule 62-204.800, F.A.C.]

N.~~11~~14. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year.

[Rule 62-296.320(4)(b), F.A.C.; Rule 62-297.401, F.A.C.]

N.15. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. Parametric data recorded for the wet scrubber during each test shall be provided with the required test report. As necessary, EPA Methods 1-4 shall be conducted to support the other test methods.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Rule 62-297.310(7)9., F.A.C.; Permit No. 0470002-055-AC]

COMPLIANCE ASSURANCE MONITORING (CAM) REQUIREMENTS

N.~~12~~16. This emissions unit is subject to the CAM requirements contained in the attached Appendix CAM. Failure to adhere to the monitoring requirements specified does not necessarily indicate an exceedance of a specific emissions limitation; however, it may constitute good reason to require compliance testing pursuant to Rule 62-297.310(7)(b), F.A.C.

[40 CFR 64; and, Rules 62-204.800 and 62-213.440(1)(b)1.a., F.A.C.]

CONTINUOUS MONITORING

N.17. Wet Scrubber Parameters: For each wet scrubber, the permittee shall install, operate and maintain devices to continuously monitor the scrubber water flow rate, the pressure drop across the scrubber and the fan amperage. Such devices shall be calibrated, fully functional and in operation before conducting the initial compliance tests. In addition, the permittee shall install, operate and maintain devices to continuously monitor the pH level of the caustic solution in the wet scrubbers. The scrubber parameters shall be continuously monitored and recorded. For each operating hour, the 1-hour block average shall be computed from at least four data points evenly spaced over each operating hour. This data shall be used to develop new excursion levels for the scrubber parameters in the CAM plan.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

RECORDKEEPING

N.18. Wet Scrubber Records: The permittee shall maintain records on site of the scrubber water flow rate and the pressure drop across the scrubber. In addition, the following vendor design information shall be maintained

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on site for each wet scrubber: exhaust flow rate; scrubber water flow rate, scrubber pressure drop, dust inlet loading, dust outlet loading and control efficiency.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.]

COMMON CONDITIONS - F.A.C. TEST REQUIREMENTS

N.~~13~~19. This emissions unit is also subject to applicable F.A.C. Test Requirements in Subsection FF.

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

E.U. ID No.	Brief Description
042	Defluorinated Phosphate (DFP) Feed Prep

DFP Feed Prep consists of the following systems: The feed prep area where the limestone, phosphate rock, and other ingredients are mixed, the soda ash storage and handling system, and a limestone handling system. CAM does apply for particulate matter, sulfur dioxide and fluoride for this emissions unit.

The soda ash system consists of a pneumatic transfer system, which conveys soda ash from a vacuum railcar unloading hopper to a 330 ton storage silo (Emissions Point 06/ EP SA1). From this silo, soda ash is then transferred to a 20 tons soda ash bin/day tank (Emission Point 07/ EP SA2). A baghouse and bin filter control particulate Matter emissions from the silo and bin, respectively.

Limestone handling system: Limestone is unloaded via truck into a 50 ton storage silo (Emissions Point 04/EP L1) to a 3 ton limestone surge bin (Emissions Point 03/ EP L2). A baghouse and bin filter control particulate matter emissions from the silo and bin, respectively.

Remaining Emissions points are identified as Emissions Point 01 (Rock bin Baghouse), Emissions Point 02 (Baghouse), and Emissions Point 05 (Dryer wet scrubber). CAM does apply for particulate matter from the scrubber.

{Permitting note: This emissions unit is regulated under Rule 62-296.320, F.A.C., General Pollutant Emission Limiting Standards; Compliance Assurance Monitoring (CAM), adopted and incorporated by reference in Rule 62-204.800, F.A.C.}

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

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

Q.0.a. In accordance with Rule 62-210.300(2)(a)3.c., F.A.C., the operation permit for an emissions unit which has been shut down for five years or more prior to the expiration date of the current operation permit shall be renewed for a maximum period not to exceed ten years from the date of shutdown, even if the emissions unit is not maintained in operational condition, provided the conditions given in sub-subparagraph 62-210.300(2)(a)3.b., F.A.C., are met and the owner or operator demonstrates to the Department that failure to renew the permit would constitute a hardship, which may include economic hardship:

(I) The owner or operator of the emissions unit demonstrates to the Department that the emissions unit may need to be reactivated and used, or that it is the owner's or operator's intent to apply to the Department for a permit to construct a new emissions unit at the facility before the end of the extension period; and

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~~**Q.0. continued:**~~

(II) The owner or operator of the emissions unit agrees to and is legally prohibited from providing the allowable emission permitted by the renewed permit as an emissions offset to any other person under Rule 62-212.500, F.A.C.; and

(III) The emissions unit was operating in compliance with all applicable rules as of the time the source was shut down.

***EU042 was last operated in July 2005. Therefore, Permit No. 0470002-~~077~~087-AV extends EU042 expiration date only until July 2015.**

[Rule 62.210.300(2)(a)3.b and (a)3.c.]

Q.0.b. Upon demonstration of compliance with Air Construction Permit No. 0470002-055-AC and the milestones identified in Compliance Plan, Appendix CP-5, the permittee shall operate the referenced emissions unit in accordance with the conditions specified below.

[Rule 62-213.440(2), F.A.C.]

Q.1.a. Permitted Capacity. The rate shall not exceed the Maximum 12-MRA Hourly Rate = 48.94 tons of input or Maximum Daily 1-Hour Average Rate = 54 tons of input.

12-MRA (MRA - Monthly Rolling Average) Hourly Rate Maximum shall not be exceeded by the 12-MRA hourly rate calculated by averaging each monthly hourly average with the previous 11 monthly hourly averages.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Permit No. 0470002-034-AC]

Emission Points 03 and 04/L1 and L2 Limestone System:

Q.1.b. Permitted Capacity – Limestone System. The maximum loading rate for the Limestone Silo (EP 03/EP L1) shall not exceed 50,000 lbs/hr. The maximum loading rate for the Limestone Surge bin (EP 04/EP L2) shall not exceed 10,000 lbs/hr.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Permit No. AC24-191394]

Q.2. Methods of Operation are as follows:
~~Fuels~~
EP-05: Natural gas shall be fired ~~are natural gas or~~in the Feed Prep Dryer as the primary fuel. Fuel oil with a maximum sulfur content of 1.~~50%.~~5% by weight may be fired as a backup fuel if the vendor is unable to provide natural gas.

[Rule 62-213.410, F.A.C.~~]~~.; Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

Q.3. Hours of Operation. The soda ash storage equipment~~-~~ is allowed to operate continuously 8760 hours/year (8784 in any Leap Year). The soda ash silo vacuum pump (EP 06/EP SA1) operating hours shall not exceed

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1800 hours per year. The soda ash bin blower/exhaust fan (EP 07/EP SA2) operating hours shall not exceed 2700 hours.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Construction Permit No. AC24-165588]

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CONTROL EQUIPMENT
~~EMISSION LIMITATIONS~~ AND ~~STANDARDS~~METHODS

Q.4. Baghouses: The baghouse control systems shall be operated and maintained to effectively control particulate matter from each of the emissions points identified above for the regulated emissions units

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

Q.5. Wet Scrubbers: The wet scrubber controls shall be operated and maintained to effectively control particulate matter from each of the emissions points identified above for the regulated emissions units. The wet scrubber controls shall also be operated and maintained to effectively control sulfur dioxide.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

Q.6. General Best Operational Practices: Best operational practices to minimize leaks of sulfur dioxide and sulfur trioxide, or other fugitive process emissions shall be adhered to and shall include regular inspections and prompt repair or correction of any leaks or other fugitive emissions.

[Rule 62-296.320, F.A.C.; Permit No. 0470002-055-AC]

EMISSION LIMITATIONS AND STANDARDS

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

{Permitting Note: Unless otherwise specified, the averaging times for these conditions are based on the specified averaging time of the applicable test method.}~~{Permitting note: Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}~~

~~*{Permitting Note: Unless otherwise specified, the averaging times for these conditions are based on the specified averaging time of the applicable test method.}*~~

Q.7. Nitrogen Oxides Emissions. Nitrogen oxides emissions (expressed as NO_2) shall be controlled by the inherent combustion design of the existing unit and the firing of the natural gas as the primary fuel.

[Rule 62-4.070(3), F.A.C.; Permit No. 0470002-055-AC]

Emission Points 01, 02, 03, 04, 06, 07:

Q.8. Baghouse Design Specification: Bags/filters in each baghouse control system shall be selected based on a design outlet specification of 0.01 grains per actual cubic feet of exhaust. Compliance shall be demonstrated by maintaining the appropriate records. No stack testing is required.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C. ; Permit No. 0470002-055-AC]

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Emission Point 05/ Feed Prep Scrubber:

Q.~~4~~9. Particulate Matter. Particulate Matter Emissions shall not exceed ~~31.99~~4.5 lbs/hr ~~and 134.35 TPY~~as determined by EPA Method 5.

[Rule 62-296.320(4)(a), F.A.C.~~]~~.; Air Construction Permit 0470002-055-AC]

Q.~~5~~10. Sulfur Dioxide. Sulfur Dioxide Emissions shall not exceed 4.90 lbs/hr and 20.58. To control sulfur dioxide emissions, natural gas shall be fired as the primary fuel. If the vendor is unable to provide natural gas, fuel oil with a maximum sulfur content of 1.5% by weight may be fired as a backup fuel.

[Used in a SO2 model]

Q.~~6~~11. Visible Emissions. Visible Emissions shall not be equal to greater than 20% opacity.

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

Emission Point 02/ Baghouse:

Q.~~7.~~12. Opacity Standard. Visible Emissions~~. Visible Emissions~~ from each baghouse exhaust shall not exceed 5% opacity as determined by EPA Method 9.

[Rule 62-297.620(4), F.A.C.~~]~~. ;Rule 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

Q.13. Particulate Matter Emissions. Particulate Matter Emissions from the baghouse shall not exceed 0.01gr/acfm.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

Emission Point 01/ Rock Bin:

Q.~~8~~14. Opacity Standard. Visible Emissions~~. Visible Emissions~~ from each baghouse exhaust shall not exceed 5% opacity as determined by EPA Method 9.

[Rule 62-297.620(4), F.A.C.~~]~~. ;Rule 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

~~**Emission Point 03/ L1 Lime Silo:**~~

Q.~~9.a.~~ 15. Particulate Matter Emissions. Particulate Matter ~~emissions~~Emissions from the baghouse shall not exceed 0.~~10 lbs/hr~~01gr/acfm.

[Rules 62-4.070(3) and ~~0.44 TPY.~~62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

~~[Construction Permit No. AC24-191394]~~

~~**Q.9.b. Visible Emissions**. Visible~~**Emission Point 03/ L1 Lime Silo:**

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Q.16. Particulate Matter Emissions. Particulate Matter Emissions from the baghouse shall not exceed 0.01gr/acfm.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

Q.17. Opacity Standard. Visible Emissions from each baghouse exhaust shall not exceed 5% opacity~~.~~ as determined by EPA Method 9.

[Rule 62-297.620(4), F.A.C.~~]~~. ;Rule 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

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Emission Point 04/ L2 Lime Bin:

Q.~~10.a.~~ 18. Particulate Matter Emissions. Particulate Matter ~~emissions~~Emissions from the baghouse shall not exceed 0.~~10 lbs/hr~~01gr/acfm.

[Rules 62-4.070(3) and ~~0.44 TPY.~~

~~[Construction~~62-296.340 (BART), F.A.C., Permit No. ~~AC24-191394~~0470002-055-AC]

Q.~~10.b~~19. Opacity Standard. Visible Emissions~~. Visible Emissions~~ from each baghouse exhaust shall not exceed 5% opacity as determined by EPA Method 9.

[Rule 62-297.620(4), F.A.C.~~]~~.; ;Rule 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

Emission Point 06/ SA1 Soda Ash Silo:

Q.~~11.a~~20. Particulate Matter~~.~~ Emissions. Particulate Matter ~~emissions~~Emissions from the baghouse shall not exceed 0.~~25 lb/hr~~01gr/acfm.

[Rules 62-4.070(3) and ~~0.23 TPY.~~

~~[Construction~~62-296.340 (BART), F.A.C., Permit No. ~~AC24-165588~~0470002-055-AC]

Q.~~11b.~~21. Opacity Standard. Visible Emissions~~. Visible Emissions~~ from each baghouse exhaust shall not exceed 5% opacity as determined by EPA Method 9.

[Rule 62-297.620(4), F.A.C.~~]~~. ;Rule 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

Emission Point 07/ SA2 Soda Ash Bin:

Q.~~12.a~~22. Particulate Matter~~.~~ Emissions. Particulate Matter ~~emissions~~Emissions from the baghouse shall not exceed 0.~~02 lb/hr~~01gr/acfm.

[Rules 62-4.070(3) and ~~0.027 TPY.~~

~~[Construction~~62-296.340 (BART), F.A.C., Permit No. ~~AC24-165588~~0470002-055-AC]

Q.~~12.b~~23. Opacity Standard. Visible Emissions~~. Visible Emissions~~ from each baghouse exhaust shall not exceed 5% opacity as determined by EPA Method 9.

[Rule 62-297.620(4), F.A.C.~~]~~.;Rule 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

~~**TEST METHODS AND PROCEDURES**~~

TEST METHODS AND PROCEDURES

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

Emission Point 05:

Q.~~13. From EP 05,~~24. Particulate Matter. Particulate Matter Emissions stack test method shall be EPA Method 5 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year~~.~~ (October 1st – September 30th).

[Rule 62-296.320(4)(a), F.A.C.; Rule 62-297.401, F.A.C.~~]~~. ;Rule 62-204.800, 40 CFR 60, Appendix A; Permit No. 0470002-055-AC]

Q.~~14. From EP 05,~~25. Sulfur Dioxide. Sulfur Dioxide Emissions in lieu of testing shall comply with the applicable requirements in Rule 62-297.440(1), F.A.C. or maintain a record of acceptable, certified analyses of all fuel oil fired and report annually once each federal fiscal year.

Q.~~15. From EP 05,~~26. Visible Emissions. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year.

[Rule 62-297.401, F.A.C.~~]~~., Permit No. 0470002-055-AC]

~~**Q.16.**~~
Q.27. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. Parametric data recorded for the wet scrubber during each test shall be provided with the required test report. As necessary, EPA Methods 1-4 shall be conducted to support the other test methods.

[Rules 62-297.310(7)9., 62-4.070(3), and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

Emission Point 02:

Q.28. From EP 02, Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year~~.~~ (October 1st to September 30th).

[Rule 62-297.401, F.A.C.~~]~~.; 40 CFR 60, Appendix A; Rule 62-204.800, Rule 62-296.340(3)(b)2., Rule 62-297.310(7)(a)4., F.A.C., Permit No. 0470002-055-AC]

Emission Point 01:

Q.~~17~~29. From EP 01, Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year~~.~~ (October 1st to September 30th).

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[Rule 62-297.401, F.A.C.~~]~~.; 40 CFR 60, Appendix A; Rule 62-204.800, Rule 62-296.340(3)(b)2., Rule 62-297.310(7)(a)4., F.A.C., Permit No. 0470002-055-AC]

Emission Point 03/ L1 Lime Silo:

Q.~~18.a. Particulate Matter~~~~. Compliance with the particulate matter limitation in **Condition Q.9.** shall be demonstrated by compliance with the Visible emissions standard in **Condition Q.9.**~~

~~Q.18.b~~30. Visible Emissions. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year~~.~~ (October 1st to September 30th). The test shall be conducted while the silo is being loaded.

[Rule 62-297.401, F.A.C.; Construction Permit No. AC24-191394; 40 CFR 60, Appendix A; Rule 62-204.800, Rule 62-296.340(3)(b)2., Rule 62-297.310(7)(a)4., F.A.C., Permit No. 0470002-055-AC]

Emission Point 04/ L2 Lime Bin:

Q.~~19.a. Particulate Matter~~~~. Compliance with the particulate matter limitation in **Condition Q.10.** shall be demonstrated by compliance with the Visible emissions standard in Condition Q.10.~~

~~Q.19.b~~31. Visible Emissions. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year~~.~~ (October 1st to September 30th). The test shall be conducted while the bin is being loaded.

[Rule 62-297.401, F.A.C.; Construction Permit No. AC24-191394; 40 CFR 60, Appendix A; Rule 62-204.800, Rule 62-296.340(3)(b)2., Rule 62-297.310(7)(a)4., F.A.C., Permit No. 0470002-055-AC]

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Emission Point 06/ SA1 Soda Ash Silo:

~~**Q.20. Visible Emissions**. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year.~~**Q.32. Visible Emissions**.
Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year (October 1st to September 30th).

[Rule 62-297.401, F.A.C.; Construction Permit No. AC24-165588; 40 CFR 60, Appendix A; Rule 62-204.800, Rule 62-296.340(3)(b)2., Rule 62-297.310(7)(a)4., F.A.C., Permit No. 0470002-055-AC]

Emission Point 07/ SA2 Soda Ash Bin:

Q.~~21~~33. Visible Emissions. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year~~.~~ (October 1st to September 30th).

[Rule 62-297.401, F.A.C.; Construction Permit No. AC24-165588; 40 CFR 60, Appendix A; Rule 62-204.800, Rule 62-296.340(3)(b)2., Rule 62-297.310(7)(a)4., F.A.C., Permit No. 0470002-055-AC]

COMPLIANCE ASSURANCE MONITORING (CAM) REQUIREMENTS

Q.~~22~~34. Emission point EP05 is subject to the CAM requirements contained in the attached Appendix CAM. Failure to adhere to the monitoring requirements specified does not necessarily indicate an exceedance of a specific emissions limitation; however, it may constitute good reason to require compliance testing pursuant to Rule 62-297.310(7)(b), F.A.C.

[40 CFR 64; and, Rules 62-204.800 and 62-213.440(1)(b)1.a., F.A.C.]

CONTINUOUS MONITORING REQUIREMENTS

Q.35. Wet Scrubber Parameters: For each wet scrubber, the permittee shall install, operate and maintain devices to continuously monitor the scrubber water flow rate, the pressure drop across the scrubber and the fan amperage. Such devices shall be calibrated, fully functional and in operation before conducting the initial compliance tests. The scrubber parameters shall be continuously monitored and recorded. For each operating hour, the 1-hour block average shall be computed from at least four data points evenly spaced over each operating hour. This data shall be used to develop new excursion levels for the scrubber parameters in the CAM plan.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

RECORDKEEPING

Q.36. Baghouses Records: The permittee shall maintain records on site of the vendor data sheets that demonstrate compliance with the baghouse design outlet specification for the bags/filters. To demonstrate initial

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compliance, the permittee shall provide copies of such records with the corresponding visible emissions test report that demonstrates initial compliance with the opacity standard.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

Q.37. Wet Scrubber Records: The permittee shall maintain records on site of the scrubber water flow rate and the pressure drop across the scrubber. In addition, the following vendor design information shall be maintained on site for each wet scrubber: exhaust flow rate; scrubber water flow rate, scrubber pressure drop, dust inlet loading, dust outlet loading and control efficiency.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

Common Conditions - F.A.C. Test Requirements

Q.~~23~~38. This emissions unit is also subject to applicable F.A.C. Test Requirements in Subsection FF.

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Q.39. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit.

[Rules 62-297.310, 62-4.070(3), and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

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

E.U. ID No.	Brief Description
044	"A" & "B" Defluorinated Phosphate (DFP) Coolers

"A" & "B" DFP Coolers emit particulate matter, and each are controlled by a cyclonic wet scrubber that exhaust through a common stack (EP 12). CAM does not apply for particulate matter and fluoride for this emissions unit.

{Permitting note(s): These emissions units are regulated under Rule 62-296.320, F.A.C., General Pollutant Emission Limiting Standards; and Rule 62-296.403, F.A.C., Phosphate Processing}

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

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

R.0.a. In accordance with Rule 62-210.300(2)(a)3.c., F.A.C., the operation permit for an emissions unit which has been shut down for five years or more prior to the expiration date of the current operation permit shall be renewed for a maximum period not to exceed ten years from the date of shutdown, even if the emissions unit is not maintained in operational condition, provided the conditions given in sub-subparagraph 62-210.300(2)(a)3.b., F.A.C., are met and the owner or operator demonstrates to the Department that failure to renew the permit would constitute a hardship, which may include economic hardship:

(I) The owner or operator of the emissions unit demonstrates to the Department that the emissions unit may need to be reactivated and used, or that it is the owner's or operator's intent to apply to the Department for a permit to construct a new emissions unit at the facility before the end of the extension period; and

(II) The owner or operator of the emissions unit agrees to and is legally prohibited from providing the allowable emission permitted by the renewed permit as an emissions offset to any other person under Rule 62-212.500, F.A.C.; and

(III) The emissions unit was operating in compliance with all applicable rules as of the time the source was shut down.

***EU044 was last operated in July 2005. Therefore, Permit No. 0470002-~~077~~087-AV extends EU044 expiration date only until July 2015.**

[Rule 62-210.300(2)(a)3.b and (a)3.c.]

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R.0.b. Upon demonstration of compliance with Air Construction Permit No. 0470002-055-AC and the milestones identified in Compliance Plan, Appendix CP-5, the permittee shall operate the referenced emissions unit in accordance with the conditions specified below.

[Rule 62-213.440(2), F.A.C.]

R.1. Permitted Capacity. The rate for each DFP Cooler "A" & "B" shall not exceed the Maximum 12-MRA Hourly Rate = 8.25 tons of product or Maximum Daily 1-Hour Average Rate = 10 tons of product.

12-MRA (MRA - Monthly Rolling Average) Hourly Rate Maximum shall not be exceeded by the 12-MRA hourly rate calculated by averaging each monthly hourly average with the previous 11 monthly hourly averages. [Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; permit 0470002-034-AC]

R.2. Hours of Operation. ~~The hours of operation for this~~This emissions unit ~~shall~~ is allowed to operate continuously 8760 hours/year (8784 in any Leap Year).

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

CONTROL EQUIPMENT AND METHODS

R.3. Wet Scrubbers: The wet scrubber controls shall be operated and maintained to effectively control particulate matter from each of the emissions points identified above for the regulated emissions units.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.]

EMISSION LIMITATIONS AND STANDARDS

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

{Permitting Note: Unless otherwise specified, the averaging times for these conditions are based on the specified averaging time of the applicable test method.}

~~**EMISSION LIMITATIONS AND STANDARDS**~~

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

~~*{Permitting Note: Unless otherwise specified, the averaging times for these conditions are based on the specified averaging time of the applicable test method.}*~~

~~**R.3**~~**R.4. Fluoride Emissions**. Fluoride emissions shall not exceed 1.42 lbs/hr and 5.96 TPY.

[Rule 62-296.403(2), F.A.C.; Permit No. AO24-31725]

R.~~4~~5. Particulate Matter. Particulate Matter Emissions shall not exceed ~~25.04~~17.5 lbs/hr ~~and 105.17 TPY~~.

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[Rule 62-296.320(4)(a), F.A.C.; AO24-31725; Rule 62-296.340(BART), F.A.C.; Air Construction Permit 0470002-055-AC]

R.~~5~~6. Visible Emissions. Visible Emissions shall not be equal to or greater than 20% opacity.

[Rule 62-296.320(4)(b), F.A.C.; Permit No. AO24-31725]

TEST METHODS AND PROCEDURES~~TEST METHODS AND PROCEDURES~~

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

R.~~6~~7. Total Fluoride. Fluoride emissions stack test method shall be EPA Method 13A or 13B incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year.

[Rule 62-296.403(3), F.A.C.; Rule 62-297.401, F.A.C.; Permit No. AO24-31725]

R.~~7~~8. Particulate Matter. Particulate Matter Emissions stack test method shall be EPA Method 5 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year~~.~~ October 1st – September 30th).

[Rule 62-296.320(4)(a), F.A.C.; Rule 62-297.401, F.A.C.; Permit No. AO24-31725; .; Rule 62-204.800, Rule 62-296.340(3)(b)2, 40 CFR 60, Appendix A; Permit No.0470002-055-AC]

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R.~~8~~9. Visible Emissions. Visible Emissions test method shall be EPA Method 5 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year.

[Rule 62-296.320(4)(b), F.A.C.; Rule 62-297.401, F.A.C.]

R.10. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. Parametric data recorded for the wet scrubber during each test shall be provided with the required test report.

[Rule 62-297.310(7)(a)9, F.A.C.);Permit No. 0470002-055-AC]

CONTINUOUS MONITORING

R.11. Wet Scrubber Parameters: For each scrubber, the permittee shall install, operate and maintain devices to continuously monitor the scrubber water flow rate, the pressure drop across the scrubber and the fan amperage. Such devices shall be calibrated, fully functional and in operation before conduction the initial compliance tests.

a. For each emissions unit subject to a CAM plan, the scrubber parameters shall be continuously monitored and recorded. For each operating hour, the 1-hour block average shall be computed from at least four data points evenly spaced over each operating hour. This data shall be used to develop new excursion levels for the scrubber parameters in the CAM plan.

b. For each emissions unit subject to a CAM plan, the scrubber parameters shall be continuously monitored and manually recorded at least once during each eight –hour block of operation. Alternatively, the parametric data may be continuously recorded. During each required compliance test, such data shall be recorded at 15-minute intervals.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

RECORDKEEPING

R.12. Wet Scrubber Records: The permittee shall maintain records on site of the scrubber water flow rate and the pressure drop across the scrubber. In addition, the following vendor design information shall be maintained on site for each wet scrubber: exhaust flow rate; scrubber water flow rate, scrubber pressure drop, dust inlet loading, dust outlet loading and control efficiency.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

COMMON CONDITIONS - F.A.C. TEST REQUIREMENTS

R.~~9~~13. This emissions unit is also subject to applicable F.A.C. Test Requirements in Subsection FF.

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

E.U. ID No.	Brief Description
054	Molten Sulfur System for "C" & "D" Sulfuric Acid Plants

Molten Sulfur System for "C" & "D" Sulfuric Acid Plants consist of a rail & truck unloading system with transfer point venting, receiving pit, supply pit, and storage tank. The EU has an emission limitation for visible emissions. CAM does not apply.

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

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

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

S.1. Permitted Capacity. The rate shall not exceed the Maximum 12-MRA Hourly Rate = 77.08 tons of throughput or Maximum Daily 1-Hour Average Rate = 85 tons throughput.

12-MRA (MRA - Monthly Rolling Average) Hourly Rate Maximum shall not be exceeded by the 12-MRA hourly rate calculated by averaging each monthly hourly average with the previous 11 monthly hourly averages. Throughput rate corresponds to the sulfur feed rate to the sulfuric acid plants.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; permit 0470002-034-AC]

S.2. Hours of Operation. ~~The hours of operation for this~~This emissions unit ~~shall~~ is allowed to operate continuously 8760 hours/year (8784 in any Leap Year).

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

EMISSIONS LIMITING AND PERFORMANCE STANDARDS

S.3. Opacity Standard: As determined by EPA Method 9, visible emissions from any emission point in the molten sulfur facility shall not exceed 20% opacity (6-minute average). .

[Air Construction Permit 0470002-055-AC; Rule 62-296.340 (BART), F.A.C.]

S.4. Molten Sulfur Facilities – Work Practice Standards: All molten sulfur facilities shall employ, as a minimum, the following practices to minimize the emission of sulfur particulate matter into the atmosphere.

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

b. All areas surrounding points where molten sulfur pipes are routinely disconnected and areas where molten sulfur is transferred to trucks or railcars shall be paved and curbed within 20 feet of the point of

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disconnection or transfer to contain any spilled molten sulfur, or shall be provided with non-corrodible drip pans or other secondary containment, positioned to collect spills, that are adequate to contain amounts of sulfur that may escape during routine disconnection, reconnection or operation of the piping system.

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

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

e. All owners and operators of molten sulfur storage and handling facilities shall maintain records of spills outside of containment areas and of collection and disposal of spilled sulfur. Such records shall be retained for a minimum of two years and shall be available for inspection by the Department upon request.

f. Owners and operators shall establish and implement procedures to minimize spills from any movable loading arm or pipe upon disconnection, reconnection or operation.

[Rules 62-296.340 (BART); Permit No. 0470002-055-AC]

TEST METHODS AND PROCEDURES

S.5. Visible Emissions: Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be conducted every 5 years (prior to operation permit renewal.)

[Rule 62-296.340(BART), F.A.C.; Permit No. 0470002-055-AC]

S.6. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit

[Rule 62-297.310(7)(a)9, F.A.C.);Permit No. 0470002-055-AC]

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

E.U. ID No.	Brief Description
062	Defluorinated Phosphate (DFP) Product Silos

DFP Product Silos emit particulate matter, which is controlled by the following emissions points (EP); EP 14, Product sizing & crushing controlled by a baghouse, and EP 16, Product storage silos "A", "B" and "C" & shipping operations controlled by a baghouse. CAM does not apply for this emissions unit.

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

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

U.0.a. In accordance with Rule 62-210.300(2)(a)3.c., F.A.C., the operation permit for an emissions unit which has been shut down for five years or more prior to the expiration date of the current operation permit shall be renewed for a maximum period not to exceed ten years from the date of shutdown, even if the emissions unit is not maintained in operational condition, provided the conditions given in sub-subparagraph 62-210.300(2)(a)3.b., F.A.C., are met and the owner or operator demonstrates to the Department that failure to renew the permit would constitute a hardship, which may include economic hardship:

(I) The owner or operator of the emissions unit demonstrates to the Department that the emissions unit may need to be reactivated and used, or that it is the owner's or operator's intent to apply to the Department for a permit to construct a new emissions unit at the facility before the end of the extension period; and

(II) The owner or operator of the emissions unit agrees to and is legally prohibited from providing the allowable emission permitted by the renewed permit as an emissions offset to any other person under Rule 62-212.500, F.A.C.; and

(III) The emissions unit was operating in compliance with all applicable rules as of the time the source was shut down.

***EU062 was last operated in 2005. Therefore, pursuant to Rule 62-210.300(2)(a)3.c., F.A.C., the operation permit for this emissions unit shall be renewed for a maximum period not to exceed ten years from the date of shutdown, even if the emissions unit is not maintained in operational condition, provided the conditions given in Rule 62-210.300(3)(a)3.b.,F.A.C. are met and the owner or operator demonstrates to the Department that failure to renew the permit would constitute a hardship, which may include economic hardship.**

[Rule 62-210.300(2)(a)3.b and (a)3.c.]

U.0.b. Upon demonstration of compliance with Air Construction Permit No. 0470002-055-AC and the milestones identified in Compliance Plan, Appendix CP-5, the permittee shall operate the referenced emissions unit in accordance with the conditions specified below.

[Rule 62-213.440(2), F.A.C.]

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ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

U.1. Hours of Operation. ~~The hours of operation for this~~ This emissions unit ~~shall~~ is allowed to operate continuously 8760 hours/year (8784 in any Leap Year) and shall be recorded.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Construction Permit No. AC24-250411]

U.2. **Permitted Capacity**. The maximum total discharge rate from the three silos, Nos. A, B, and C, shall not exceed 100 TPH of DFP. One or more silos may discharge at the same time.

[Construction Permit No. AC24-250411]

CONTROL EQUIPMENT AND METHODS

U.3. Baghouses: The baghouse control systems shall be operated and maintained to effectively control particulate matter from each of the emissions points identified above for the regulated emissions units

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

EMISSION LIMITATIONS AND STANDARDS

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

{Permitting Note: Unless otherwise specified, the averaging times for these conditions are based on the specified averaging time of the applicable test method.}

U.4. Baghouse Design Specification: Bags/filters in each baghouse control system shall be selected based on a design outlet specification of 0.01 grains per actual cubic feet of exhaust. Compliance shall be demonstrated by maintaining the appropriate records. No stack testing is required.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.]

From EP 14:

U.~~3.~~ 5. Opacity Standard. Visible Emissions from each baghouse exhaust shall not exceed 5% opacity as determined by EPA Method 9.

[Rule 62-297.620(4), F.A.C.; Operation Permit No. AC24-226519; , Rule 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

U.6. Particulate Matter Emissions. Particulate Matter Emissions from the baghouse shall not exceed 0.01gr/acfm.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

From EP 16:

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U.~~4.~~ 7. Opacity Standard. Visible Emissions from each baghouse exhaust shall not exceed 5% opacity as determined by EPA Method 9.

[Rule 62-297.620(4), F.A.C.; Operation Permit No. AC24-226519, Rule 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

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U.8. Particulate Matter Emissions. Particulate Matter Emissions from the baghouse shall not exceed 0.01gr/acfm.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

COMPLIANCE MONITORING AND TESTING REQUIREMENTS

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

From EP 14:

U.~~5~~9. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C., and shall conduct a formal compliance test during each federal fiscal year (October ~~1~~1st - September ~~30~~30th) unless otherwise specified by rule, order, or permit.

[Rule 62-297.401, F.A.C. and Rule 62-297.310(7)(a)4.a, F.A.C.; Operation Permit No. AC24-226519; 40 CFR 60, Appendix A; Rule 62-204.800, Rule 62-296.340(3)(b)2., Rule 62-297.310(7)(a)4., F.A.C., Permit No. 0470002-055-AC]

From EP 16:

U.~~6~~10. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C., and shall conduct a formal compliance test during each federal fiscal year (October ~~1~~1st - September ~~30~~30th) unless otherwise specified by rule, order, or permit.

[Rule 62-297.401, F.A.C. and Rule 62-297.310(7)(a)4.a, F.A.C.; Operation Permit No. AC24-226519; 40 CFR 60, Appendix A; Rule 62-204.800, Rule 62-296.340(3)(b)2., Rule 62-297.310(7)(a)4., F.A.C., Permit No. 0470002-055-AC]

RECORDKEEPING

U.11. Baghouses Records: The permittee shall maintain records on site of the vendor data sheets that demonstrate compliance with the baghouse design outlet specification for the bags/filters. To demonstrate initial compliance, the permittee shall provide copies of such records with the corresponding visible emissions test report that demonstrates initial compliance with the opacity standard.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.]

COMMON CONDITIONS - F.A.C. TEST REQUIREMENTS

U.~~7~~12. This emissions unit is also subject to applicable F.A.C. Test Requirements in Subsection FF.

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U.13. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit.

[Rules 62-297.310, 62-4.070(3), and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

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

E.U. ID No.	Brief Description
064	Swift Creek Mine Rock Dryer

SCM Rock Dryer is a phosphate rock dryer, with a fluid bed exhausting through a two-stage wet cyclonic scrubber to control particulate matter emissions. CAM does not apply for particulate matter and sulfur dioxide for this emissions unit.

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

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

V.0.a. In accordance with Rule 62-210.300(2)(a)3.c., F.A.C., the operation permit for an emissions unit which has been shut down for five years or more prior to the expiration date of the current operation permit shall be renewed for a maximum period not to exceed ten years from the date of shutdown, even if the emissions unit is not maintained in operational condition, provided the conditions given in sub-subparagraph 62-210.300(2)(a)3.b., F.A.C., are met and the owner or operator demonstrates to the Department that failure to renew the permit would constitute a hardship, which may include economic hardship:

(I) The owner or operator of the emissions unit demonstrates to the Department that the emissions unit may need to be reactivated and used, or that it is the owner's or operator's intent to apply to the Department for a permit to construct a new emissions unit at the facility before the end of the extension period; and

(II) The owner or operator of the emissions unit agrees to and is legally prohibited from providing the allowable emission permitted by the renewed permit as an emissions offset to any other person under Rule 62-212.500, F.A.C.; and

(III) The emissions unit was operating in compliance with all applicable rules as of the time the source was shut down.

***EU064 was last operated in 2006. Therefore, pursuant to Rule 62-210.300(2)(a)3.c., F.A.C., the operation permit for this emissions unit shall be renewed for a maximum period not to exceed ten years from the date of shutdown, even if the emissions unit is not maintained in operational condition, provided the conditions given in Rule 62-210.300(3)(a)3.b.,F.A.C. are met and the owner or operator demonstrates to the Department that failure to renew the permit would constitute a hardship, which may include economic hardship.**

[Rule 62-210.300(2)(a)3.b and (a)3.c.]

V.0.b. Upon demonstration of compliance with Air Construction Permit No. 0470002-055-AC and the milestones identified in Compliance Plan, Appendix CP-5, the permittee shall operate the referenced emissions unit in accordance with the conditions specified below.

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[Rule 62-213.440(2), F.A.C.]

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

V.1. Permitted Capacity. The operation rate shall not exceed the Maximum 12-MRA Hourly Rate = 475 tons of input or Maximum Daily 1-Hour Average Rate = 525 tons of input.
12-MRA (MRA - Monthly Rolling Average) Hourly Rate Maximum shall not be exceeded by the 12-MRA hourly rate calculated by averaging each monthly hourly average with the previous 11 monthly hourly averages.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Construction Permit No. 0470002-034-AC]

V.2. Methods of Operation. ~~It~~ is the Rock Dryer is fired primarily with natural gas. No. 6 fuel oil with sulfur content not to exceed 1.30 % by weight which may contain on-spec used oil with sulfur content not to exceed 1.0 % by weight is fired as a backup fuel when natural gas is not available.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C. Permit No. 0470002-055-AC]

Better Grade Fuel Oil. When No. 6 fuel oil is specified in this permit, a better grade may be substituted. A better grade fuel oil is defined as a fuel oil with a higher ranking in the following list:
Better Grade (Top of list)

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

The use of Better Grade Fuel oils does not constitute the use of these fuels beyond "as stand-by fuels" as specified under each EU's fuel usage limits below.

[Rule 62-213.410, F.A.C., Construction Permit No. 0470002-073-AC]

V.3. Hours of Operation. ~~The hours of operation for this~~ This emissions unit ~~shall~~ is allowed to operate continuously 8760 hours/year (8784 in any Leap Year).

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

CONTROL EQUIPMENT AND METHODS

V.4. Wet Scrubbers: The wet scrubber controls shall be operated and maintained to effectively control particulate matter from each of the emissions points identified above for the regulated emissions units. The wet scrubber controls on the "A" and "B" DFP Plants (EU-003 and EU-038) shall also be operated and maintained to effectively control sulfur dioxide.

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[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

V.5. General Best Operational Practices: Best operational practices to minimize leaks of sulfur dioxide and sulfur trioxide, or other fugitive process emissions shall be adhered to and shall include regular inspections and prompt repair or correction of any leaks or other fugitive emissions.

[Rule 62-296.320, F.A.C.; Permit No. 0470002-055-AC]

EMISSION LIMITATIONS AND STANDARDS

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

{Permitting Note: Unless otherwise specified, the averaging times for these conditions are based on the specified averaging time of the applicable test method.}

~~**V.4.**~~**V.6.** **Particulate Matter**. Particulate Matter Emissions shall not exceed ~~46.40~~17.3 lbs/hr ~~and 203.23 TPY~~as determined by EPA Method 5.

[Rule 62-296.320(4)(a)., F.A.C.~~.]~~; 62-296.340 (BART), F.A.C.; Air Construction Permit 0470002-055-AC]

V.~~5~~7. Sulfur Dioxide.

(a) Sulfur Dioxide Emissions shall not exceed 38.10 lbs/hr and 166.88 TPY.

[Used in 02/81 model]

(b) The firing of the fuels as stated in Condition V.2 shall be used to control sulfur dioxide emissions.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C., Permit No. 0470002-055-AC]

V.8.~~V.6.~~ Visible Emissions. Visible Emissions shall not be equal to or greater than 20% opacity.

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

V.9. Nitrogen Oxides Emissions. Nitrogen oxides emissions (expressed as NO_2) shall be controlled by the inherent combustion design of the existing unit and the firing of the natural gas as the primary fuel.

[Rule 62-4.070(3), F.A.C.; Permit No. 0470002-055-AC]

OPERATING REQUIREMENTS

V.~~7~~10. Scrubber Parameter Daily Averages. The permittee shall maintain daily averages of the pressure drop across each scrubber and of the flow rate of the scrubbing liquid to each scrubber within the allowable ranges established pursuant the requirements of **Condition GG.4. (1) or (2).**

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[Rule 62-204.800, F.A.C.; 40 CFR 63.604]

MONITORING REQUIREMENTS

~~**V.8.**~~**V.11.** **Wet Scrubber Parameters**: For each wet scrubber, the permittee shall install, operate and maintain devices to continuously monitor the scrubber water flow rate, the pressure drop across the scrubber and the fan amperage. Such devices shall be calibrated, fully functional and in operation before conducting the initial compliance tests. The scrubber parameters shall be continuously monitored and manually recorded at least once during each eight-hour block of operation. Alternatively, the parametric data may be continuously recorded. During each required compliance test, such data shall be recorded at 15-minute intervals.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

COMMON CONDITIONS

V.12. The Permittee shall meet the 40 CFR 63 Subpart AA requirements stated in Common Conditions GG.1 – GG.4.

TEST METHODS AND PROCEDURES

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

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V.~~9~~13. Particulate Matter.

(a) Particulate Matter Emissions stack test method shall be EPA Method 5 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year (October 1st – September 30th)

[Rules 62-204.800, 62-296.340(3)(b)2, and 62-297.310(7)(a)4, F.A.C.; and 40 CFR 60, Appendix A; Permit No. 0470002-055-AC]

(b) The Permittee shall meet the 40 CFR 63 Subpart AA performance testing requirements stated in **Common Conditions GG.5, GG.6, and GG.8**.

V.~~10~~14. Sulfur Dioxide. Sulfur Dioxide Emissions in lieu of testing shall comply with the applicable requirements in Rule 62-297.440(1), F.A.C. or maintain a record of acceptable, certified analyses of all fuel oil fired. A report shall be submitted on an annual basis prior to 03/01 of each year.

V.~~11~~15. Visible Emissions. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually, once each federal fiscal year.

[Rule 62-296.320(4)(b), F.A.C.; Rule 62-297.401, F.A.C.; Rule 62-297.310(7)(a)4.a., F.A.C.]

V.16. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. Parametric data recorded for the wet scrubber during each test shall be provided with the required test report. As necessary, EPA Methods 1-4 shall be conducted to support the other test methods.

NOTIFICATION, RECORDKEEPING, REPORTING REQUIREMENTS

V.~~12~~17. The Permittee shall meet the 40 CFR 63 Subpart AA notification, recordkeeping, and reporting requirements stated in **Common Conditions GG.10. – GG.12**.

V.~~13~~18. This emissions unit is subject to specific requirements of 40 CFR 63 Subpart AA, Appendix A to Subpart AA – Applicability to General Provisions to Subpart AA, and alternative MACT monitoring plan (Administrative Order No. 04-I-AP, dated October 4, 2004). The owner or operator is responsible for remaining in compliance with any updates made to Subpart A or AA.– **This EU is subject to Facility Wide condition No. 10.**
~~**This EU is subject to Facility Wide condition No. 10.**~~

[40 CFR 63-Subpart A; 40 CFR 63-Subpart AA; and Administrative Order No. 04-I-AP, Alternate MACT Monitoring Plan]

V.19. Wet Scrubber Records: The permittee shall maintain records on site of the scrubber water flow rate and the pressure drop across the scrubber. In addition, the following vendor design information shall be maintained on site for each wet scrubber: exhaust flow rate; scrubber water flow rate, scrubber pressure drop, dust inlet loading, dust outlet loading and control efficiency.

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[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

COMMON CONDITIONS - ON-SPEC USED OIL/LEAD

V.~~14~~20. This emissions unit is also subject to the On-Spec Used Oil/Lead conditions in Subsection EE**.**

COMMON CONDITIONS - F.A.C. TEST REQUIREMENTS

V.~~15~~21. This emissions unit is also subject to applicable F.A.C. Test Requirements in Subsection FF.

COMMON CONDITIONS – GENERAL PROVISIONS OF 40 CFR 63

V.~~16~~22. This emissions unit is also subject to the applicable requirements of 40 CFR 63 Subpart A.

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

E.U. ID No.	Brief Description
065	Swift Creek Mine Silos

Swift Creek Mine Silos Mineral Storage and Conveyor System use a wet scrubber to control particulate matter emissions. CAM does not apply for particulate matter for this emissions unit.

{Permitting note: This emissions unit is regulated under Rule 62-296.320, F.A.C., General Pollutant Emission Limiting Standards.}

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

W.0.a. In accordance with Rule 62-210.300(2)(a)3.c., F.A.C., the operation permit for an emissions unit which has been shut down for five years or more prior to the expiration date of the current operation permit shall be renewed for a maximum period not to exceed ten years from the date of shutdown, even if the emissions unit is not maintained in operational condition, provided the conditions given in sub-subparagraph 62-210.300(2)(a)3.b., F.A.C., are met and the owner or operator demonstrates to the Department that failure to renew the permit would constitute a hardship, which may include economic hardship:

(I) The owner or operator of the emissions unit demonstrates to the Department that the emissions unit may need to be reactivated and used, or that it is the owner's or operator's intent to apply to the Department for a permit to construct a new emissions unit at the facility before the end of the extension period; and

(II) The owner or operator of the emissions unit agrees to and is legally prohibited from providing the allowable emission permitted by the renewed permit as an emissions offset to any other person under Rule 62-212.500, F.A.C.; and

(III) The emissions unit was operating in compliance with all applicable rules as of the time the source was shut down.

***EU065 was last operated in 2006. Therefore, pursuant to Rule 62-210.300(2)(a)3.c., F.A.C., the operation permit for this emissions unit shall be renewed for a maximum period not to exceed ten years from the date of shutdown, even if the emissions unit is not maintained in operational condition, provided the conditions given in Rule 62-210.300(3)(a)3.b.,F.A.C. are met and the owner or operator demonstrates to the Department that failure to renew the permit would constitute a hardship, which may include economic hardship.**

[Rule 62-210.300(2)(a)3.b and (a)3.c.]

W.0.b. Upon demonstration of compliance with Air Construction Permit No. 0470002-055-AC and the milestones identified in Compliance Plan, Appendix CP-5, the permittee shall operate the referenced emissions unit in accordance with the conditions specified below.

[Rule 62-213.440(2), F.A.C.]

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ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

W.1. Permitted Capacity. The rate shall not exceed the Maximum 12-MRA Hourly Rate = 475 tons of input or Maximum Daily 1-Hour Average Rate = 525 tons of input.

12-MRA (MRA - Monthly Rolling Average) Hourly Rate Maximum shall not be exceeded by the 12-MRA hourly rate calculated by averaging each monthly hourly average with the previous 11 monthly hourly averages.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; permit 0470002-034-AC]

W.2. Hours of Operation. ~~The hours of operation for this~~This emissions unit ~~shall~~ is allowed to operate continuously 8760 hours/year (8784 in any Leap Year).

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

~~**EMISSION LIMITATIONS AND STANDARDS**~~

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

~~*{Permitting Note: Unless otherwise specified, the averaging times for these conditions are based on the specified averaging time of the applicable test method.}*~~

CONTROL EQUIPMENT AND METHODS

W.3. Wet Scrubbers: The wet scrubber controls shall be operated and maintained to effectively control particulate matter from each of the emissions points identified above for the regulated emissions units.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC

EMISSION LIMITATIONS AND STANDARDS

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

{Permitting Note: Unless otherwise specified, the averaging times for these conditions are based on the specified averaging time of the applicable test method.}

W.4.
~~**W.3.**~~ **Particulate Matter**. Particulate Matter Emissions shall not exceed ~~46.40~~6.27 lbs/hr ~~and 203.20 TPY~~.

[Rule 62-296.320(4)(a), F.A.C.~~]~~. .; Rule 62-296.340(BART), F.A.C.; Air Construction Permit 0470002-055-AC]

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~~W.4.~~W.5. **Visible Emissions**. Visible Emissions shall not be equal to or greater than 20% opacity.

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

TEST METHODS AND PROCEDURES~~**TEST METHODS AND PROCEDURES**~~

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

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

W.~~**5**~~**6. Particulate Matter**. Particulate Matter emissions test method shall be EPA Method 5 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year~~.~~ (October 1st – September 30th).

[Rule 62-296. 320(4)(a)3., F.A.C.; Rule 62-297.401, F.A.C.~~]~~. ; Rule 62-204.800, Rule 62-296.340(3)(b)2, 40 CFR 60, Appendix A; Permit No.0470002-055-AC]

W.~~**6**~~**7. Visible Emissions**. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. and be performed annually once each federal fiscal year.

[Rule 62-296. 320(4)(b)4., F.A.C.; Rule 62-297.401, F.A.C.]

W.8. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. Parametric data recorded for the wet scrubber during each test shall be provided with the required test report.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C,; Rule 62-297.310(7)(a)9, F.A.C.]

CONTINUOUS MONITORING

W.9. Wet Scrubber Parameters: For each scrubber, the permittee shall install, operate and maintain devices to continuously monitor the scrubber water flow rate, the pressure drop across the scrubber and the fan amperage. Such devices shall be calibrated, fully functional and in operation before conduction the initial compliance tests.

a. For each emissions unit subject to a CAM plan, the scrubber parameters shall be continuously monitored and recorded. For each operating hour, the 1-hour block average shall be computed from at least four data points evenly spaced over each operating hour. This data shall be used to develop new excursion levels for the scrubber parameters in the CAM plan.

b. For each emissions unit subject to a CAM plan, the scrubber parameters shall be continuously monitored and manually recorded at least once during each eight –hour block of operation. Alternatively, the

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parametric data may be continuously recorded. During each required compliance test, such data shall be recorded at 15-minute intervals.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

RECORDKEEPING

W.10. Wet Scrubber Records: The permittee shall maintain records on site of the scrubber water flow rate and the pressure drop across the scrubber. In addition, the following vendor design information shall be maintained on site for each wet scrubber: exhaust flow rate; scrubber water flow rate, scrubber pressure drop, dust inlet loading, dust outlet loading and control efficiency.

[Rules 62-4.070(3) and 62-296.340 (BART), F.A.C.; Permit No. 0470002-055-AC]

COMMON CONDITIONS - F.A.C. TEST REQUIREMENTS

W.~~7~~11. This emissions unit is also subject to applicable F.A.C. Test Requirements in Subsection FF.

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SECTION IV. APPENDICES.

The Following Appendices Are Enforceable Parts of This Permit:

Appendix A, Glossary.
Appendix A, Glossary.
Appendix A, Glossary.
Appendix CAM, Compliance Assurance Monitoring Plan.
Appendix CP3, Compliance Plan.
Appendix CP4, Compliance Plan.
Appendix CP5, Compliance Plan.
Appendix I, List of Insignificant Emissions Units and/or Activities.
Appendix NESHAP, Subpart A – General Provisions.
Appendix NESHAP, AA, BB, ZZZZ.
Appendix NSPS, Subpart A – General Provisions.
Appendix NSPS, Subpart T, U, V, JJJJ.
Appendix RR, Facility-wide Reporting Requirements.
Appendix TR, Facility-wide Testing Requirements.
Appendix TV, Title V General Conditions.
Appendix U, List of Unregulated Emissions Units and/or Activities.

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REFERENCED ATTACHMENTS.

The Following Attachments Are Included for Applicant Convenience:

Figure 1, Summary Report-Gaseous and Opacity Excess Emission and Monitoring System Performance (40 CFR 60, July, 1996).
Table H, Permit History.
Table 1, Summary of Air Pollutant Standards and Terms.
Table 2, Compliance Requirements.

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