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

Title V Air Operation Permit Revision

Permit No. 0470002-080-AV
Revision of Title V Air Operation Permit No. 0470002-077-AV

Permitting & Compliance Authority:
State of Florida
Department of Environmental Protection
Northeast District
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256

Telephone: 904/256-1700
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Title V Air Operation Permit Revision
Permit No. 0470002-080-AV

This DRAFT/PROPOSED permit will only reflect the affected Subsections D, J, and Common Conditions EE, FF, HH, II for EUs 008 and 032. The FINAL permit will be issued in its entirety.

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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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DRAFT/ PROPOSED PERMIT

PERMITTEE:
White Springs Agricultural Chemicals, Inc.
P. O. Box 300
White Springs, Florida 32096

Permit No. 0470002-080-AV Draft/ Proposed
Suwannee River/Swift Creek Complex
Facility Id No. 0470002
Title V Air Operation Permit Revision

The purpose of this permit is to incorporate Air Construction Permit No. 0470002-079-AC, which authorizes the streamlining of recordkeeping for EUs 008 "Y" Train and EU032 "Z" Train to limit the capacity based on P_2O_5 input; to allow flexibility to operate with an ammonia vaporizer on EUs 008 and 032; to add a temporary, portable Ammoniated Polyphosphate Plant to manufacture liquid fertilizer to the Unregulated List; to allow the tail gas scrubber pressure drop for EU032 to be reported based on the entire scrubber; The facility will conduct a test to determine the feasibility of using re-circulating fresh water liquid stream to be cooled with non contact heat exchangers in lieu of the once through pond water currently used on the dryer cooler scrubbers in the MAP plants. If the feasibility test is successful, the facility will began construction to change the scrubber liquid in the EU032 "Z"-Train Reaction Cooler Scrubber, "Z"-Train Dryer Cooler Scrubber, "Z"-Train Dust Cooler Scrubber, EU008 "Y"-Train Reaction Cooler Scrubber, "Y"-Train Fluorine Abatement Scrubber from once-through pond water to re-circulating fresh water for EUs 008 and 032; the addition of heat exchanger(s) and water tanks for the indirect contact cooling of the re-circulating water. The existing White Springs Agricultural Chemicals, Inc.- 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: xx/xx/xx
Renewal Application Due Date: December 17, 2016
Expiration Date: July 30, 2017

DRAFT

_____
Khalid Al-Nahdy, P.E.
District Program Administrator

KAA: lm

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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 application received December 6, 2011, 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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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
40 CFR 63, Subpart BB	008, 032
40 CFR 63, Subpart ZZZZ & JJJJ	076
40 CFR 63, Subpart DDDDD	039, 040, 068
State Rule Citations: BACT, Rule 62-296.320, F.A.C., Rule 62-297.401, F.A.C Rule 62-296.403, F.A.C., Rule 62-297.620(4), F.A.C.; Rule 62-212.400, F.A.C., Rule 62-296.411, F.A.C.	001, 003, 004, 008, 020, 021, 022, 032, 034, 035, 036, 038, 039, 040, 042, 044, 054, 061, 062, 064, 065, 066, 067, 068, 069, 070, 071, 072, 075

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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. 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. Annual Emissions Fee Form and Fee. The annual Title V emissions fees are due (postmarked) by March 1st of each year. The completed form and calculated fee shall be submitted to: Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida 32315-3070. The forms are 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 62-213.205, F.A.C.]

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. 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: 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. 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. 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. Facility subject to the attached Appendix CP-4.

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In order to provide better customer service and enhance the permitting experience in the Draft/Proposed permit, only the emission unit(s) (EU) which are changed in the revision are listed in Section III. EMISSIONS UNITS AND SPECIFIC CONDITIONS. {*Permitting Note: Strikethroughs indicate items deleted and red, double underlined font indicates items added.}*

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. 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, granulator, 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.

a. ~~The production rate for Modes 1-2 and 4-6 shall not exceed 60 tons of product per hour based on a 12-month rolling average (12-MRA Hourly Rate Maximum) or 66 tons of product per hour based on a one-hour daily rolling average.~~ The P_2O_5 feed shall not exceed 36.33 tons per hour (daily average). ~~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.~~ and 290,112 TPY of P_20_5 input basis.

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D.1. continued:

~~b. The annual production rate for Mode 6 shall not exceed 525,600 tons of product per year.~~
[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]

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 emissions unit shall not exceed 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]

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 Point 01

ALL MODES:

D.4. 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]

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ALL MODES:

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

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

MODES 1 or 2:

D.7. Particulate Matter. Particulate Matter Emissions shall not exceed 33.33 lbs/hr and 145.99 TPY.

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

MODES 4, 5, or 6:

D.8. Particulate Matter. For MAP production the Particulate Matter Emissions shall not exceed 45.15 lbs/hr and 197.74 TPY.

[Rule 62-296.320(4)(a), F.A.C., and Air Construction Permit 0470002-050-AC]

OPERATING REQUIREMENTS

D.9. 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. 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. **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. 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)]

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

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

ALL MODES:

D.14. 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. 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. 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.

[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]

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

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NOTIFICATION, RECORDKEEPING, REPORTING REQUIREMENTS

D.19. 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. 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. 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., 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]

<u>Common Conditions</u> - On-Spec Used Oil/Lead

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

<u>Common Conditions</u> - F.A.C. Test Requirements

D.23. 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. This emissions unit is also subject to the applicable requirements of 40 CFR 63 Subpart A.

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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 DAP Plant) with two emissions points (EP). The first EP is the main part of 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 operation rate shall not exceed the Maximum 12-MRA Hourly Rate = 75 tons of product or Maximum Daily 1-Hour Average Rate = 83 tons of product.~~ The P_2O_5 feed shall not exceed 45.7 tons per hour daily average and 362,737 TPY P_2O_5 input.
~~(41.1 tons per hour 12-MRA)~~.

~~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. 0470002-032-AC; Construction Permit No. 0470002-034-AC; and 0470002-079-AC]

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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 fired are natural gas, fuel oil with a maximum sulfur content of 1.00%, or on-spec used oil with a maximum sulfur content of 1.00%.

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

J.3. Hours of Operation. The hours of operation for this emissions unit shall not exceed 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.}

ALL MODES:

From EP (TG):

J.4. 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. Particulate Matter. Particulate Matter Emissions shall not exceed 47.37 lbs/hr and 206.90 TPY.

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

J.6. Sulfur Dioxide. Sulfur Dioxide Emissions shall not exceed 11.80 lbs/hr and 51.50 TPY.

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

J.7. 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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From EP (C):

J.8. Visible Emissions. Visible Emissions shall not be equal to or greater than 20% opacity.

[Rule 62-296.320(4)(b), F.A.C.; Construction Permit No. 0470002-032-AC]

OPERATING REQUIREMENTS

J.9. 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]

MONITORING REQUIREMENTS

J.10. 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. 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. 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 60.223(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. The Permittee shall meet the 40 CFR 63 Subpart BB monitoring requirements stated in **Common Conditions HH.1 – HH.3.**

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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ALL MODES:

From EP (TG):

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

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

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

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

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. <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. 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. [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.]

J.17. 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.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 62-297.310(7)(a)4.a., F.A.C.; Rule 62-297.401, F.A.C.]

From EP (C):

J.19. 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.]

NOTIFICATION, RECORDKEEPING, REPORTING REQUIREMENTS

J.20. 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. 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]

EXEMPTION FROM NEW SOURCE PERFORMANCE STANDARDS.

J.22. 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., 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]

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<u>Common Conditions</u> - On-Spec Used Oil/Lead

J.23. 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. 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. This emissions unit is also subject to the applicable requirements of 40 CFR 63 Subpart A.

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Subsection EE. Common Conditions - On-Spec Used Oil/Lead

E.U. ID No.	Sub-section	Brief Description
039	O	'C' Auxiliary Boiler
040	R	'D' Auxiliary Boiler
068	BB	'E' Auxiliary Boiler
064	X	SCM Rock Dryer
004	D	X-Train
008	E	Y-Train
032	L	Z-Train

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

EE.1. The lead emissions cap for the facility is 9.4 TPY. The on-specification used oil fired in the 'C', 'D' & 'E' Auxiliary Boilers should not exceed 23,000,000 gallons per year which at 100 ppm yields 9.0 TPY of lead emissions. The on-specification used oil fired in the other emissions unit(s) listed above shall not exceed 0.4 TPY of lead emissions.

[Requested by the Applicant]

EE.2. The on-spec used oil prior to blending shall comply with the limits listed below and shall be recorded:

ON-SPEC USED OIL SPECIFICATIONS	
Constituent/Property	**Allowable Level**
Arsenic	5 ppm maximum
Cadmium	2 ppm maximum
Chromium	10 ppm maximum
Lead	100 ppm maximum
Total Halogens	1,000 ppm maximum
Flash Point	100°F minimum

[40 CFR 761]

EE.3. On-specification used oil may be fired as follows:

1. At any time provided the maximum concentration of PCBs shall be less than 2 ppm and whether generated on or off-site. The analysis and recordkeeping requirements apply to each amount prior to blending even if to be blended with 90% virgin oil.

2. Only during normal operation temperature and not during startup or shutdown if the maximum concentration of PCBs is ≥ 2 but < 50 ppm.
[40 CFR 761]

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EE.4. A certified on-specification used oil analysis of each delivery prior to blending shall be retained (in lieu of testing) and reported as part of the AOR.

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

EE.5. A lead emissions report shall be submitted by each March 01 as part of the AOR in a table format showing all of data and results required to document that the LEAD CAP has not been exceeded for the previous calendar year.

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

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Subsection FF. Common Conditions - F.A.C. Test Requirements

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
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 Filters
L.	035	North Phosphoric Acid Filters
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	Defluorinated Phosphate (DFP) Feed Prep
R.	044	"A" and "B" Defluorinated Phosphate (DFP) Coolers
S.	054	Molten Sulfur System
T.	061	Green Superphosphoric Acid Plant
U.	062	Defluorinated Phosphate (DFP) Silos
V.	064	SCM Rock Dryer
W.	065	SCM Silos
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

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

{Permitting Note: The following conditions are placed here as a convenience and to avoid duplication. See specific conditions in Subsections A through FF for applicability.}

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62-297.310 General Compliance Test Requirements.
The focal point of a compliance test is the stack or duct which vents process and/or combustion gases and air pollutants from an emissions unit into the ambient air.

(1) Required Number of Test Runs. For mass emission limitations, a compliance test shall consist of three complete and separate determinations of the total air pollutant emission rate through the test section of the stack or duct and three complete and separate determinations of any applicable process variables corresponding to the three distinct time periods during which the stack emission rate
was measured; provided, however, that three complete and separate determinations shall not be required if the process variables are not subject to variation during a compliance test, or if three determinations are not necessary in order to calculate the unit's emission rate. The three required test runs shall be completed within one consecutive five-day period. In the event that a sample is lost or one of the three runs must be discontinued because of circumstances beyond the control of the owner or operator, and a valid third run cannot be obtained within the five-day period allowed for the test, the Secretary or his or her designee may accept the results of two complete runs as proof of compliance, provided that the arithmetic mean of the two complete runs is at least 20% below the allowable emission limiting standard.

(2) Operating Rate During Testing. Unless otherwise stated in the applicable emission limiting standard rule, testing of emissions shall be conducted with the emissions unit operation at permitted capacity as defined below. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.

(a) Combustion Turbines. (Reserved)

(b) All Other Sources. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit.

(3) Calculation of Emission Rate. The indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the three separate test runs unless otherwise specified in a particular test method or applicable rule.

(4) Applicable Test Procedures.

(a) Required Sampling Time.

1. Unless otherwise specified in the applicable rule, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes.

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2. Opacity Compliance Tests. When either EPA Method 9 or DEP Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Exceptions to these requirements are as follows:

a. For batch, cyclical processes, or other operations which are normally completed within less than the minimum observation period and do not recur within that time, the period of observation shall be equal to the duration of the batch cycle or operation completion time.

b. The observation period for special opacity tests that are conducted to provide data to establish a surrogate standard pursuant to Rule 62-297.310(5)(k), F.A.C., Waiver of Compliance Test Requirements, shall be established as necessary to properly establish the relationship between a FINAL surrogate standard and an existing mass emission limiting standard.

c. The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.

(b) Minimum Sample Volume. Unless otherwise specified in the applicable rule, the minimum sample volume per run shall be 25 dry standard cubic feet.

(c) Required Flow Rate Range. For EPA Method 5 particulate sampling, acid mist/sulfur dioxide, and fluoride sampling which uses Greenburg Smith type impingers, the sampling nozzle and sampling time shall be selected such that the average sampling rate will be between 0.5 and 1.0 actual cubic feet per minute, and the required minimum sampling volume will be obtained.

(d) Calibration of Sampling Equipment. Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1.

(e) Allowed Modification to EPA Method 5. When EPA Method 5 is required, the following modification is allowed: the heated filter may be separated from the impingers by a flexible tube.

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TABLE 297.310-1
CALIBRATION SCHEDULE

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

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(5) Determination of Process Variables.

(a) Required Equipment. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.

(b) Accuracy of Equipment. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

(6) Required Stack Sampling Facilities. Sampling facilities include sampling ports, work platforms, access to work platforms, electrical power, and sampling equipment support. All stack sampling facilities must meet any Occupational Safety and Health Administration (OSHA) Safety and Health Standards described in 29 CFR Part 1910, Subparts D and E.

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

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

(c) Sampling Ports.

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

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

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

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

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

(d). Work Platforms.

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

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

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

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

(e). Access to Work Platform.

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

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

(f). Electrical Power.

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

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

(g). Sampling Equipment Support.

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

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

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

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

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

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

(7) Frequency of Compliance Tests. The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.

(a) General Compliance Testing.

1. The owner or operator of a new or modified emissions unit that is subject to an emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining an operation permit for such emissions unit.

2. For excess emission limitations for particulate matter specified in Rule 62-210.700, F.A.C., a compliance test shall be conducted annually while the emissions unit is operating under soot blowing conditions in each federal fiscal year during which soot blowing is part of normal emissions unit operation, except that such test shall not be required in any federal fiscal year in which a fossil fuel steam generator does not burn liquid and/or solid fuel for more than 400 hours other than during startup.

3. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to Rule 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:

a Did not operate; or

b. In the case of a fuel burning emissions unit, burned liquid and/or solid fuel for a total of no more than 400 hours.

4. During each federal fiscal year (October 1 -- September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:

a. Visible emissions, if there is an applicable standard;

b. Each of the following pollutants, if there is an applicable standard, and if the emissions unit emits or has the potential to emit: 5 tons per year or more of lead or lead compounds measured as elemental lead; 30 tons per year or more of acrylonitrile; or 100 tons per year or more of any other regulated air pollutant; and

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c. Each NESHAP pollutant, if there is an applicable emission standard.

5. An annual compliance test for particulate matter emissions shall not be required for any fuel burning emissions unit that, in a federal fiscal year, does not burn liquid and/or solid fuel, other than during startup, for a total of more than 400 hours.

6. For fossil fuel steam generators on a semi-annual particulate matter emission compliance testing schedule, a compliance test shall not be required for any six-month period in which liquid and/or solid fuel is not burned for more than 200 hours other than during startup.

7. For emissions units electing to conduct particulate matter emission compliance testing quarterly pursuant to Rule 62-296.405(2)(a), F.A.C., a compliance test shall not be required for any quarter in which liquid and/or solid fuel is not burned for more than 100 hours other than during startup.

8. Any combustion turbine that does not operate for more than 400 hours per year shall conduct a visible emissions compliance test once per each five-year period, coinciding with the term of its air operation permit.

9. The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

10. An annual compliance test conducted for visible emissions shall not be required for units exempted from permitting at Rule 62-210.300(3)(a), F.A.C., or units permitted under the General Permit provisions at Rule 62- 210.300(4)(a)1. through 7., F.A.C.

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

(c) Waiver of Compliance Test Requirements. If the owner or operator of an emissions unit that is subject to a compliance test requirement demonstrates to the Department, pursuant to the procedure established in Rule 62-297.620, F.A.C., that the compliance of the emissions unit with an applicable weight emission limiting standard can be adequately determined by means other than the designated test procedure, such as specifying a surrogate standard of no visible emissions for particulate matter sources equipped with a bag house or specifying a fuel analysis for sulfur dioxide emissions, the Department shall waive the compliance test requirements for such emissions units and order that the alternate means of determining compliance be used, provided, however, the provisions of Rule 62-297.310(7)(b), F.A.C., shall apply.

(8) Test Reports.

(a) The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test.

(b) The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed.

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(c) The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information:

1. The type, location, and designation of the emissions unit tested.
2. The facility at which the emissions unit is located.
3. The owner or operator of the emissions unit.
4. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
5. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.
6. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
7. A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.
8. The date, starting time and duration of each sampling run.
9. The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.
10. The number of points sampled and configuration and location of the sampling plane.
11. For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.

l2. The type, manufacturer and configuration of the sampling equipment used.

13. Data related to the required calibration of the test equipment.
14. Data on the identification, processing and weights of all filters used.
15. Data on the types and amounts of any chemical solutions used.
16. Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.
17. The names of individuals, who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.
18. All measured and calculated data required to be determined by each applicable test procedure for each run.
19. The detailed calculations for one run that relate the collected data to the calculated emission rate.
20. The applicable emission standard, and the resulting maximum allowable emission rate for the emissions unit, plus the test result in the same form and unit of measure.
21. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the Department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.

62-297.320 Standards for Persons Engaged in Visible Emissions Observations.

(1) Training and Certification Required. All persons engaged in determining the opacity of visible emissions in Florida shall attend training and be certified by a training provider in accordance with the procedures and requirements set forth below.

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(a) Certification shall consist of satisfactory attendance and completion of a classroom lecture and a field qualification. For certification purposes, the classroom lecture and field qualification are separate and independent requirements.
(b) Attendance at the classroom lecture is required no less frequently than every three years. Successful completion of the field qualification is required no less frequently than every six months.
(c) Proof of certification shall be made by including copies of the signed and dated certificates or cards issued by the training providers with documentation of visible emissions observations submitted to the department, or otherwise upon request of the department.

(2) Requirements for Training Providers. All persons providing training leading to the certification of persons engaged in determining the opacity of visible emissions in Florida shall meet the requirements of subsections 62-297.320(2)-(8), F.A.C.
(a) For certification purposes, the classroom lecture and field certification are separate and independent requirements. For each course scheduled, each training provider shall offer a classroom lecture and one or more days of field qualification.
(b) Copies of quality assurance documentation, attendance records and field data sheets shall be maintained for a period of no less than three years after the conclusion of each course and shall be made available to the department upon request.
(c) Each training provider shall arrange for suitable locations for the classroom lecture and field qualification sessions that facilitate learning and reduce the impact of the smoke on passersby.
(d) To assure that cigar, pipe or cigarette smoke does not interfere with the observations of the trainees, each training provider shall enforce a policy of no smoking within the field qualification area.

(3) Classroom Lecture.
(a) The classroom lecture shall include the following topics and exercises:
1. Sources and causes of visible emissions.
2. Common types of emission control equipment and their effects on visible emissions observations.
3. History of opacity measurement.
4. Principles and theory of opacity.
5. Plume types and characteristics.
6. Legal aspects of visible emissions observations and legal defensibility of Method 9.
7. Basic meteorological conditions that influence plume behavior.
8. Proper procedures for conducting field observations under a variety of conditions.
9. A demonstration of commonly used measurement devices including a compass, a wind speed measurement device, and an inclinometer.
10. A written exercise demonstrating the proper procedure for documentation of observations.
(b) Training providers shall issue a signed and dated certificate or card to all persons attending the classroom lecture.

(4) Field Qualification.
(a) The field qualification shall be conducted in accordance with the requirements set forth in 40 CFR Part 60, Subpart A, EPA Method 9, adopted and incorporated by reference at Rule 62-204.800, F.A.C.; EPA Quality Assurance Handbook for Air Pollution Measurement Systems: Volume III, Section 3.12, hereby adopted and incorporated by reference; and EPA Guidelines for Evaluation of Visible Emissions (EPA 340/1-75-007, April 1975), hereby adopted and incorporated by reference.
(b) Each training provider shall meet requirements for quality assurance at least as stringent as those outlined in EPA Method 9.

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(c) Each training provider shall monitor the attendees so that conferring or copying results during field qualification does not occur.
(d) Each training provider shall not provide hints of any kind or demonstrate the smoke standards during the field qualification sessions, except during familiarization runs prior to each test.
(e) Training providers shall issue a signed and dated certificate or card to all persons who successfully complete the field qualification.

(5) Notification to Department of Training Course Offerings. Each training provider shall notify the Department of all visible emissions training courses such provider offers in Florida at least 30 days prior to the start of each course.

(6) Notification to Department of Persons Receiving Certification. Each training provider shall provide a list of the names of attendees receiving certification at its courses to the department no later than 30 days after the conclusion of each course.

(7) Audit by the Department. For auditing purposes, each training provider shall allow one or more persons from the Department or a local air pollution control agency to observe each visible emissions training course offered in Florida without advance notice to the training provider. The training provider shall not issue a certificate or card to the observers, and shall not charge a fee for their attendance.

(8) Invalidation of Certificates. After investigation by the department, should any training provider's course be found by the department to not meet the requirements of this section, the certificates or cards offered by such provider for such course shall not be considered valid for visible emissions observations in Florida.

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Subsection HH. Common Conditions – Subparts BB Monitoring and Testing Requirements

Sub-section	E.U. ID No.	Brief Description
D.	008	"Y" Train #1 MAP/DAP Plant
J.	032	"Z"-Train #2 MAP/DAP

Monitoring Requirements

HH.1. 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 63.625(a)]

HH.2. P_2O_5 Feed. Each owner or operator of a new or existing diammonium and/or monoammonium phosphate process line or granular triple superphosphate process line subject to the provisions of this subpart shall maintain a daily record of equivalent P_2O_5 feed.

[Rule 62-204.800, F.A.C.; 40 CFR 63.625(b)]

HH.3. Scrubber Pressure Drop and Liquid Flow Rate. Each owner or operator of a new or existing diammonium and/or monoammonium phosphate process line, granular triple superphosphate process line, or granular triple superphosphate storage building using a wet scrubbing emission control system shall install, calibrate, maintain, and operate the following monitoring systems:

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

(2) A monitoring system which continuously measures and permanently records the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system in 15-minute block averages. The monitoring system shall be certified by the manufacturer to have an accuracy of ±5 percent over its operating range.

[Rule 62-204.800, F.A.C.; 40 CFR 63.625(b)]

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HH.4. <u>Operating Parameter Allowable Range Methodology</u>. Following the date on which the performance test required in § 63.626 is completed, the owner or operator of a new or existing affected source using a wet scrubbing emission control system and subject to emissions limitations for total fluorides or particulate matter contained in this subpart must establish allowable ranges for operating parameters using the methodology of either paragraph (1) or (2) of this Condition:

(1) The allowable range for the daily averages of the pressure drop across each scrubber and of the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system is ±20 percent of the baseline average value determined as a requirement of §63.626(c)(4) or (d)(4). The Administrator retains the right to reduce the ±20 percent adjustment to the baseline average values of operating ranges in those instances where performance test results indicate that a source's level of emissions is near the value of an applicable emissions standard, but in no instance shall the adjustment be reduced to less than ±10 percent. The owner or operator must notify the Administrator of the baseline average value and must notify the Administrator each time that the baseline value is changed as a result of the most recent performance test. When a source using the methodology of this paragraph is retested, the owner or operator shall determine whether new allowable ranges of baseline average values will be based upon the new performance test or (if the new performance test results are within the previously established range) whether there will be no change in the operating parameters derived from previous tests. When a source using the methodology of this paragraph is retested and the performance test results are submitted to the Administrator pursuant to §§63.627(c)(1), 63.7(g)(1), and/or 63.10(d)(2), the owner or operator will indicate whether the operating range will be based on the new performance test or the previously established range. If the Administrator has not denied approval of the new operating ranges within 30 days of submission of the performance test results, the new ranges shall be deemed approved and the new baseline value shall then be effective on the 31st day following submission.

(2) The owner or operator of any new or existing affected source shall establish, and provide to the Administrator for approval, allowable ranges for the daily averages of the pressure drop across and of the flow rate of the scrubbing liquid to each scrubber in the process scrubbing system for the purpose of assuring compliance with this subpart. Allowable ranges may be based upon baseline average values recorded during previous performance tests using the test methods required in §63.626(c)(4) or (d)(4). As an alternative, the owner or operator can establish the allowable ranges using the results of performance tests conducted specifically for the purposes of this paragraph using the test methods required in this subpart and established in the manner required in §63.626(c)(4) or (d)(4). The source shall certify that the control devices and processes have not been modified subsequent to the testing upon which the data used to establish the allowable ranges were obtained. The allowable ranges developed pursuant to the provisions of this paragraph must be submitted to the Administrator for approval. The owner or operator must request and obtain approval of the Administrator for changes to the allowable ranges. When a source using the methodology of this paragraph is retested, the owner or operator shall determine new allowable ranges of baseline average values unless the retest indicates no change in the operating parameters outside the previously established ranges. If the Administrator has not denied approval of the new operating ranges within 30 days of submission of the performance test results, the new ranges shall be deemed approved and the new baseline value shall then be effective on the 31st day following submission.
[Rule 62-204.800, F.A.C.; 40 CFR 63.625(f)]

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PERFORMANCE TESTS AND COMPLIANCE PROVISIONS.

HH.5. Performance Tests.

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

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

[40 CFR 63.626(a)]

HH.6. In conducting performance tests, each owner or operator of an affected source shall use as reference methods and procedures the test methods in 40 CFR Part 60, Appendix A, or other methods and procedures as specified in this section, except as provided in § 63.7(f).

[40 CFR 63.626(b)]

HH.7. Total Fluorides. Each owner or operator of a new or existing diammonium and/or monoammonium phosphate process line or granular triple superphosphate process line shall determine compliance with the applicable total fluorides standards in § 63.622 or § 63.623 as follows:

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

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

where:

E = emission rate of total fluorides, g/metric ton (lb/ton) of equivalent P_2O_5 feed.
C_{si} = concentration of total fluorides from emission point "i," mg/dscm (mg/dscf).
Q_{sdi} = 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, metric ton/hr (ton/hr).

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HH.7. continued:

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

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

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

$$P = M_p R_p$$

where:

M_p = total mass flow rate of phosphorus-bearing feed, metric ton/hr (ton/hr).
R_p = P_2O_5 content, decimal fraction.

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

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

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

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

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

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

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

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

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

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HH.7. continued:

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

[40 CFR 63.626(c)]

NOTIFICATION, RECORDKEEPING, AND REPORTING REQUIREMENTS.

HH.8. Each owner or operator subject to the requirements of this subpart shall comply with the notification requirements in § 63.9.

[40 CFR 63.627(a)]

HH.9. Each owner or operator subject to the requirements of this subpart shall comply with the recordkeeping requirements in § 63.10.

[40 CFR 63.627(b)]

HH.10. The owner or operator of an affected source shall comply with the reporting requirements specified in § 63.10 as follows:

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

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

(3) Summary report. If the total duration of control system exceedances for the reporting period is less than 1 percent of the total operating time for the reporting period, the owner or operator shall submit a summary report containing the information specified in § 63.10 rather than the full excess emissions report, unless required by the Administrator. The summary report shall be submitted semiannually and shall be delivered or postmarked by the 30th day following the end of the calendar half.

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

[40 CFR 63.627(c)]

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Subsection II. Common Conditions – F.A.C. Excess Emissions Rules

II.1. Excess Emissions– Startup, Shutdown, Malfunction. Excess emissions resulting from startup, shutdown or malfunction shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed 2 hours in any 24 hour period unless authorized by the Department for longer duration.
[Rule 62-210.700(1), F.A.C.]

II.2. Excess Emissions – Existing Fossil Fuel Steam Generators. Excess emissions from existing fossil fuel steam generators resulting from startup or shutdown shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized.
[Rule 62-210.700(2), F.A.C.]

II.3. **Excess Emissions – Existing Fossil Fuel Steam Generators – Soot Blowing and Load Change**. Excess emissions from existing fossil fuel steam generators resulting from boiler cleaning (soot blowing) and load change shall be permitted provided the duration of such excess emissions shall not exceed 3 hours in any 24-hour period and visible emissions shall not exceed Number 3 of the Ringelmann Chart (60 percent opacity), and providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized.

A load change occurs when the operational capacity of a unit is in the 10 percent to 100 percent capacity range, other than startup or shutdown, which exceeds 10 percent of the unit's rated capacity and which occurs at a rate of 0.5 percent per minute or more.

Visible emissions above 60 percent opacity shall be allowed for not more than 4, six (6)-minute periods, during the 3-hour period of excess emissions allowed by this subparagraph, for boiler cleaning and load changes, at units which have installed and are operating, or have committed to install or operate, continuous opacity monitors. Particulate matter emissions shall not exceed an average of 0.3 lbs. per million BTU heat input during the 3-hour period of excess emissions allowed by this subparagraph.

[Rule 62-210.700(3), F.A.C.]

II.4. Excess Emissions. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment of process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited.

[Rule 62-210.700(4), F.A.C.]

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II.5. Excess Emissions. Considering operational variations in types of industrial equipment operations affected by this rule, the Department may adjust maximum and minimum factors to provide reasonable and practical regulatory controls consistent with the public interest.

[Rule 62-210.700(5), F.A.C.]

II.6. Excess Emissions– Malfunction. In case of excess emissions resulting from malfunctions, the owner or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department.
[Rule 62-210.700(6), F.A.C.]

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The Following Appendices Are Enforceable Parts of This Permit:

Appendix A, Glossary.
Appendix CAM, Compliance Assurance Monitoring Plan.
Appendix CP3, Compliance Plan.
Appendix I, List of Insignificant Emissions Units and/or Activities.
Appendix ICE, Requirements for Internal Combustion Engines.
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.

(If combining all of the appendices into one document (recommended), make this page the first page of Attachment Section at the end of the Appendix document.)

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