Kinder Morgan Terminals
Tampaplex Terminal
Facility ID No. 0570024
Hillsborough County

Title V Air Operation Permit Revision

Permit No. 0570024-020-AV
(Revision of Title V Air Operation Permit No. 0570024-019-AV)

Permitting and Compliance Authority:
Environmental Protection Commission of Hillsborough County
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Title V Air Operation Permit Revision

Permit No. 0570024-020-AV

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DRAFT/PROPOSED PERMIT

DRAFT/PROPOSED PERMIT

PERMITTEE:
Kinder Morgan Terminals
5321 Hartford St.
Tampa, FL 33619

Permit No. 0570024-020-AV
Tampaplex Terminal
Facility ID No. 0570024
Title V Air Operation Permit Revision

The purpose of this permit is to revise the Title V air operation permit for the above referenced facility. The existing Kinder Morgan Terminals, Tampaplex Terminal is located in Hillsborough County at 4801 Port Sutton Road, Tampa, Hillsborough County. UTM Coordinates are: Zone 17, 360.1 km East and 3087.5 km North. Latitude is: 27° 54' 24" North and, Longitude is: 82° 25' 18" 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: DATE, 20xx
Renewal Application Due Date: September 14, 2012
Expiration Date: April 29, 2013

(Draft/Proposed)

_____

Richard D. Garrity, Ph.D.
Executive Director

RDG/LAW/law

Subsection A. Facility Description.

This facility consists of truck and railcar unloading operations, a ship loading operation, silo and building storage for phosphate rock, animal feed ingredient (AFI), fertilizer products (MAP, DAP, GTSP) and other bulk materials as defined in this permit's material handling list/group description. In addition, the facility operates a marine vessel (stevedoring) loading and unloading operation of various bulk materials.

The facility receives dry phosphate rock, AFI, and fertilizer products by truck or railcar to the facility, which is stored within enclosed storage silos or buildings until transported off site by ship or barge. The products can also be transferred directly to a shiphold from a truck or railcar. The majority of these material handling operations are enclosed and controlled through baghouses. The following is a more detailed process of this operation.

During the railcar unloading operation (EU 002), the railcars are pulled into a partially enclosed structure and bottom unloaded through grates in the floor of the structure into six hoppers. Emissions from the hoppers are vented to dry cyclones. Typically four of the six hoppers are used during unloading operations. Material can then transferred from the unloading hoppers to conveyor C17 for subsequent storage in silos via conveyors C19 and C38 (EU 012), or transferred for ship loading via conveyors C18, C12, C13 and C14. The material that will be stored in the silos can be conveyed to the outer silo Nos. 1 – 16 using a series of conveyor belts, Conveyor Belt Nos. C27, C44, and C28, or to the inner silo Nos. 17 -23 using a series of conveyor belts, Conveyor Belt Nos. C19, C38, and C29. All silos are unloaded using Conveyor Belt No. 30 prior to ship loading.

Particulate matter emissions generated from the railcar unloading operation are controlled by six parallel dry cyclones followed by a 100,000 ACFM Amerex Type C Venturi scrubber and/or by the application of dust suppressant oil applied to the fertilizer product at the chemical processing facility prior to shipping. Particulate matter emissions generated from the silo loading are controlled by a 23,100 DSCFM Ducon Venturi Oriclone, VVO, 36/84 scrubber located at ground level directly north of the storage silos.

The facility operation of the various conveyor transfer points include the following; C12 Transfer Point A (EU 005), C30 Transfer Point C (EU 006), C18 Transfer Point D (EU 007), C19 Transfer Point G (EU 009) and C17 Transfer Point E (EU 004). Particulate matter emissions generated at the C12 Transfer Point A (EU 005) are controlled by one 3,000 DSCFM GE Energy Pulse Jet Horizontal Collector. Particulate matter emissions generated at the C30 Transfer Point C (EU 006) are controlled by one 3,000 DSCFM GE Energy Pulse Jet Horizontal Collector. Particulate matter emissions from EU No. 007 are controlled by a 6,000 ACFM Mikro-Pulsaire, Model 1215-8-80, baghouse. Particulate matter emissions from EU No. 009 are controlled by a 5,000 ACFM Mikro-Pulsaire, Model 1215-8-80, baghouse. Particulate matter emissions from the C17 Transfer Point E (EU 004), is controlled by a 6,000 ACFM Poly-Con, Model Venturi 1506MS, scrubber.

The material handling and storage operation (EU 008) consists of a truck unloading station, three storage silos, and a transfer conveyor system. Material is conveyed from the truck unloading station to three storage silos using Conveyor Belt No. C92. When the material is ready for shiploading, it is unloaded from the silos and conveyed to Conveyor Belt No. C12 using Conveyor Belt No. C93, and then conveyed to Conveyor Belt Nos. C13, and C14 prior to loading on the ship. Particulate matter emissions

generated during the loading of any silo are controlled by a common Mikro-Pulsaire baghouse. Particulate matter emissions from the conveyor transfer point (C93 to C12) and the truck unloading station are controlled through the use of partial enclosures.

Trucks can unload material at the truck unloading Station No. 1. Trucks are driven into a partially enclosed structure and unload material through grates in the floor of the structure. The materials are dropped onto Conveyor Belt No. C82, which transfers the material from the truck unloading Station No. 1 to Conveyor Belt No. C83 (EU 102). This transfer point is entirely enclosed. Conveyor Belt No. C83 transfers the material to Conveyor Belt No. C84, which is located inside Storage Building No. 3 (EU 103). Inside the building there is a movable tipper which allows the storage piles to be placed at different locations within the building. Materials are moved within the building with a front end loader, which is also used to transfer the material out of the building via a hopper located inside of the storage building. The hopper feeds Conveyor Belt No. C104, which transfers material to Conveyor Belt No. C12, using the C12 Transfer Point A associated with EU 005. Storage Building No. 3 is solely associated with Truck Unloading Station No.1. Particulate matter emissions are controlled through the use of dust suppressants (oiling) and enclosures.

Trucks can also unload material at Station No. 2 (EU 100), where they are driven into a partially enclosed structure and unload through grates in the floor of the structure. The material is conveyed into three storage silos using a series of conveyor belts, Conveyor Belt Nos. C2, C4, C7, and C94, and a bucket elevator, No. C3. Conveyor Belt No. C4 can transfer the material to either Conveyor Belt No. C7 or C11. Conveyor Belt No. C7 transfers material to Conveyor Belt No. C94 which loads the three storage silos associated with EU 008. Conveyor Belt No. C11 transfers material to Transfer Point D (EU 007). Conveyor Belt Nos. C4 and C7 are completely enclosed in Storage Building Nos. 1 and 2. Material is also stored in the Blackpoint Storage Building, located on a Kinder Morgan land parcel west of the Tampaplex facility, across the TECO discharge slip. The Blackpoint Storage Building is used to store bagged product only.

The ship loading operation (EU 003 and EU 013) involves the loading of phosphate rock, fertilizer products, AFI and/or other bulk material, which can be conveyed either directly from railcar, truck, storage buildings, or from the storage silos to the shiphold using a series of conveyor belts, Conveyor Belt Nos. C12, C13, and C14. A telescopic chute and an OBA chokefeeder are used to load the shiphold. Particulate matter emissions generated during the shiphold loading operation (C13 to C14 and C14 to telescopic chute) are controlled by a 9,000 DSCFM General Electric Pulse-Jet baghouse and/or a gantry mounted dust suppression system. The dust suppression system consists of one spray header equipped with four spray nozzles located inside the gantry using water or a surfactant chemical that is mixed with water.

Kinder Morgan is also authorized to operate a marine vessel (stevedoring) bulk material loading and unloading operation at the Kinder Morgan's Tampaplex location and at numerous berths in Hillsborough County. The stevedoring operation involves the loading and unloading of various bulk materials that include fertilizer materials, coal, limestone, granite, bauxite, etc., onto and from marine vessels. These materials are divided into different group categories.

At the Tampaplex Terminal, material is unloaded from a ship by one of two clamshells. The clamshell transfers the material to one of two onshore receiving hoppers. Both hoppers, RH-01 and RH-02 (EU 104) are equipped with windshields and water sprays. From the hoppers, material is gravity transferred

to a belt conveyor, BC-01 (EU 105), and then to a Radial Switch Stacker, RS-01 (EU 106). From RS-01, material can be transferred in two directions. From RS-01, material is gravity fed to a belt conveyor, PC-01 (EU 107), then to a second conveyor belt PC-02 (EU 108), and then to a second Radial Switch Stacker, RS-02 (EU 109). From RS-02, material is loaded directly into a truck or stockpiled on the ground (EU 110). A front-end loader loads the material into a truck or railcar (EU 111) for shipment offsite or for transporting the material to the storage areas.

If material is directed to the dual wing stacker, material from Radial Switch Stacker, RS-01, is gravity transferred to a belt conveyor, BC-02 (EU 107), then to a chute, and then to an uncovered belt conveyor, BC-03 (EU 108). Material is transferred from BC-03 to a dual wing stacker (EU 109) where it is stockpiled (EU 110) in one of two storage areas, the north and south storage areas. From the storage areas, a front-end loader loads the material into a truck or railcar (EU 111) for shipment offsite.

All conveyor belts and radial stackers have partial enclosures except for Conveyors BC-01 and BC-03. Conveyor BC-01 has side skirts only because the receiving hoppers can travel along the length of the conveyor belt and partial enclosure would hinder the movement of the receiving hoppers. Conveyor BC-03 has side skirts at the chute transfer point because it is equipped with a moveable dual-wing stacker that travels along the length of the conveyor, which prevents the installation of covers or side skirts along that length. All of the conveyors and radial stackers are equipped with a water spray system. Certain materials (i.e., bauxite, magnetite, etc.), due to their physical nature, cannot be unloaded using the conveyor system. To unload these and any other materials in a manner outlined below for offsite operations, the clamshell transfers material from the ship directly into a truck or into a receiving hopper and into a truck for shipment offsite or for storage. Bauxite is required to be coated with a dust suppressant at the first transfer point at the Tampaplex Site.

In addition the Kinder Morgan Tampaplex site can receive products onto the site from Belted Self Unloading Vessels. During this operation the vessel will be equipped with an extendable conveyor belt that would transfer product directly onto a storage pile. A front-end loader loads the material into a truck or railcar for shipment offsite.

Particulate matter (PM) emissions from these facility operations are controlled by the use of a water spray system and partial enclosures, and or dust suppressants. The facility operates a truck wheel wash to wash particulate material from truck tires prior to the trucks leaving the site.

When operating at berths other than the Kinder Morgan's Tampaplex site, the Stevedoring operation operates as follows:

A maximum of three, portable clamshells used to either load or unload material from a ship are mounted to barges and moved to any of the Berths listed below. The clamshells may operate at a maximum of three berths simultaneously.

When material is unloaded from ships, material is transferred from the shiphold using one of the three clamshells to a portable receiving hopper, then to a truck, and then transported either offsite or to a storage pile. The receiving hoppers are equipped with windshields and a water spray system around the perimeter.

When material will be loaded into ships, trucks transport the material to the dock and the portable clamshells transfer the material from the dock into a shiphold. However, the material should not stockpiled on the dock longer than 24 hours.

The Stevedoring operation is permitted to operate at the following berths in Hillsborough County:
1, 2, 3, 23, 24, 24B, North Star Recycling Slip 30, 31, 201, 202, 204, 205, 206, 208, 209, 210, 211, 212, 214, 215, 219, 220, 223, 224, 225, 227, 230, 232, 250, 251, 252, 253, 256, 263, 264, 265, 268, 272, 273, Kinder Morgan's Tampaplex Terminal
Port Tampa (near Picnic Island): 119 - Tampa Bulk Services
Rattlesnake Point: 126 - Misener Rock Company
Alafia River: Cargill Fertilizer Dock

The facility is subject to Rules 62-296.320 – General Pollutant Emission Limiting Standards and 62-296.711, F.A.C. - Materials Handling, Sizing, Screening, Crushing and Grinding Operations and Chapter 1-3.52, Rules of the EPC, which limit the visible emissions to a 5% opacity standard for all of the material handling operations. EPA Method 5 and EPA Method 9 testing for this permit revision have been determined by the Agency to satisfy the requirements of 40 CFR 70.6 and Chapter 62-296, F.A.C.

Subsection B. Summary of Emissions Units.

EU No.	Brief Description
Regulated Emissions Units	
002	Railcar Unloading
003	Shiploading Operation (C13 to C14)
004	C17 Transfer Point E (C17 to C18 or C17 to C19)
005	C12 Transfer Point A (C12 to C13)
006	C30 Transfer Point C (C30 to C12)
007	C18 Transfer Point D (C18 to C12)
008	Material Handling and Storage Silos
009	C19 Transfer Point G (C19 to C38)
012	Railcar Transfer to Storage Silos (C19 to C38)
013	Shiphold Loading (C14 to telescopic chute)
100	Truck and Railcar Unloading Station No. 2 and Transfer Points (C2, C3, C4, C7, C11, C94) in Storage Building Nos. 1 and 2
102	Truck Unloading Station No. 1 and Transfer Point (C82 to C83)
103	Transfer Points (C83, C84 and C104) in Storage Building No. 3
104	Clamshell to Hopper(s) RH-01 and RH-02
105	RH-01 and RH-02 to Conveyor BC-01
106	Conveyor BC-01 to Radial Stacker RS-01

EU No.	Brief Description
107	RS-01 to Conveyor BC-02 or Conveyor PC-01
108	Conveyor BC-02 to Conveyor BC-03 or PC-01 to Conveyor PC-02
109	Conveyor BC-03 to Stacker Wing or PC-02 to Radial Stacker RS-02
110	Stacker Wing to Storage Pile or RS-02 to Storage Pile
111	Front End Loader to Truck/Railcar
112	Stevedoring at Other Berths

Subsection C. Applicable Regulations.

Based on the Title V air operation permit renewal application received June 30, 2011, this facility is not 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. A summary of applicable regulations is shown in the following table.

Regulation	EU No(s).
40 CFR 63 Subpart ZZZZ	600 KW Caterpillar diesel fired emergency generator 475 KW Triton diesel fired emergency generator
Rule 62-296.320, F.A.C.	All
Rule 62-296.711, F.A.C.	All

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.]

FW2. The permittee shall comply with Appendix O-1, Operation and Maintenance Plans for Particulate Control. In the event of a deviation from the monitoring parameters, the facility shall take corrective actions to remedy the situation. Notify the Environmental Protection Commission of Hillsborough County within 24 hours of the problem. The emission unit shall not be operated until the problem is corrected. A written explanation and the corrective actions implemented shall be submitted in the semi-annual report. Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request. [Rules 62-296.700(6)(e) and 62-4.070(3), F.A.C.]

Emissions and Controls

FW3. 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.]

FW4. 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)2., F.A.C.; Proposed by applicant in the initial Title V permit application received June 16, 1996; and Permit No. 0570024-017-AC]

A) Post and enforce a speed limit of 10 miles per hour
B) Maintain material drop points as low as possible
C) Curtail operations during high wind conditions, if necessary
D) Exercise good housekeeping at all times
E) Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, and open stock piles, as necessary
F) Removal of particulate matter from buildings, work areas, roads and other paved areas under the control of the owner or operator of the facility to prevent entrainment, as necessary
G) Maintenance of parking areas and yards
H) Landscaping or planting of vegetation
I) Water sprays or other dust suppressant sprays shall be used as necessary to ensure compliance with the 5% opacity standard.

FW5. 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. [Rule 62-296.320(1)(a), F.A.C.; Permit No. 0570024-017-AC; and Proposed by applicant in the initial Title V permit application received June 16, 1996]

A) Maintain tightly fitting cover, lids, etc. on all containers when they are not being handled, tapped, etc.
B) Where possible and practical, procure/fabricate a tightly fitting cover for any open trough, basin, etc. of VOC so that it can be covered when not in use.
C) Immediately attend to all spills/waste as appropriate.

FW6. General Visible Emissions. Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, 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.]

FW7. The permittee shall notify the Air Compliance Section of the Environmental Protection Commission of Hillsborough County 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 contact person who will be responsible for coordinating and having such test conducted. [Rule 62-297.310, F.A.C.]

FW8. When the Environmental Protection Commission of Hillsborough County (EPC) 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 Rules 62-204, 62-210, 62-212, 62-296, or 62-297, F.A.C., or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the source to conduct compliance tests which identify the nature and quantity of pollutant emissions from the source and to provide a report on the results of said tests to the EPC. [Rule 62-297.310(7)(b), F.A.C. and Permit No. 0570024-017-AC]

FW9. The permittee shall give prior notification and obtain approval from the EPCHC for the loading and/or unloading of any new material not identified in this permit. [Rules 62-4.070(3) and 62-210.200(205), F.A.C. and Permit No. 0570024-016-AC]

FW10. The permittee shall provide timely notification to the Environmental Protection Commission of Hillsborough County prior to implementing any changes that may result in a modification to this permit pursuant to Rule 62-210.200(205), F.A.C., Modification. The changes do not include normal maintenance, but may include, and are not limited to, the following, and may also require prior authorization before implementation: [Rules 62-210.300 and 62-4.070(3), F.A.C. and Permit No. 0570024-015-AC]

A) Alteration or replacement of any equipment or major component of such equipment.
B) Installation or addition of any equipment which is a source of air pollution.
C) The handling of any new material not identified in this permit.

FW11. The permittee shall handle only the following materials at the Tampaplex site and at all Stevedoring locations. [Rule 62-4.070(1), F.A.C. and Permit No. 0570024-016-AC]

A)

Group I – Dusty Fertilizers		
Ammonium Sulfate	Granular Sulfate of Potash	Animal Feed Ingredients
Standard Muriate of Potash	Standard Sulfate of Potash	Standard Potassium Nitrate
Granular Muriate of Potash	Granular Sulfate of Potash-Magnesium	Standard Sulfate of Potash-Magnesium
Group II – Phosphate Rock		
Phosphate Products Rock		
Group III – Minimally Dusty Fertilizers		
Ammonium Nitrate	Sodium Potassium Nitrate	MAP
Calcium Ammonium Nitrate	Compound Fertilizers	DAP
Potassium Nitrate	Dried Sludge	GTSP
Calcium Nitrate	Urea	Kieserite
Group I V – Millscale		
Millscale		
Group V– Moderately Dusty Non-Fertilizer Products		
Coal	Syngypsum	Clay
Petcoke	Iron Ore	Magnetite/Ferrous Oxides
Group VI – Minimally Dusty Non-Fertilizer Products		
Gypsum	Alumina Hydrate	Filler Materials
Pumice	Vermiculite	Peanut Hulls
Wood Chips	Dolomite	Salt (solar)
Ferrous Sulfate	Glass	Bio-Mass
Ferro Alloys	Iron Scrap (including shredded scrap metal)	Granulated Furnace Slag
Clinker (treated or screened)	Prilled Sulfur	
Group VII – Coal Slag		
Coal Slag		
Group VIII – Agricultural Products		
Grains	Grain Meals	Seeds
Soybeans	Grain Byproducts	Peas
Wheat, Rye, Barley	Citrus Pellets	
Group IX – Bauxite/Alumina and similar Dusty Cement-like Products		
Bauxite	Alumina	Slag Cement

Group X - Aggregate		
Limestone	Granite	Rocks
Gravel	Stone	
Group XI – Sand and Similar Materials		
Sand	Soil	Limestone Fines
Dirt		

B) Millscale shall be treated with water or a dust suppressant at the first material transfer point and subsequent material transfer points as necessary to meet the 5% opacity standard.
C) All materials in Group IX shall be treated with a dust suppressant at the first material transfer point and subsequent material transfer points as necessary to meet the 5% opacity standard.

FW12. As requested by the permittee, in order to remain a synthetic minor facility with respect to the requirements of Rule 62-212.400, Prevention of Significant Deterioration, F.A.C., the maximum potential to emit (PTE) particulate matter emissions shall not exceed 249 tons per twelve consecutive month period, which is comprised of the following operations: [Rule 62-4.070(3), F.A.C. and Permit No. 0570024-016-AC]

A) Particulate Matter Emissions from the Tampaplex Operation: 51 tons
B) Particulate Matter Emissions from the Stevedoring Operation: 198 tons

FW13. In order to ensure compliance with the emission limitations in Specific Condition No. FW12., the following restrictions and limitations shall apply for any consecutive twelve month period: [Rule 62-4.070(3), F.A.C.]

A) The maximum combined throughput of material handled at the Tampaplex location shall not exceed 11,826,000 tons.
B) The combined material throughput handled through the Stevedoring operation shall not result in that operation emitting more than 198 tons of particulate matter emissions per twelve consecutive month period.

FW14. Each dust collector shall have a device capable of monitoring the pressure differential across the dust collector. The monitoring device shall be maintained in working order and shall be calibrated and adjusted to indicate the true value of the pressure drop with sufficient accuracy to allow the pressure drop to be determined within 10% of its true value. [Rules 62-4.070(3) and 62-297.310(5)(a) and (b), F.A.C.]

Annual Reports and Fees

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

FW15. 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.]

FW16. 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.]

FW17. 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.]

FW18. Prevention of Accidental Releases (Section 112(r) of CAA). If and when the facility becomes subject to 112(r), the permittee shall: [40 CFR 68]

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.

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

EU No.	Brief Description
-002	Railcar Unloading
-004	C17 Transfer Point E (C17 to C18 or C17 to C19)

EU No. 002: During the railcars unloading operation, railcars are pulled into a partially enclosed structure and bottom unloaded through grates in the floor of the structure into six hoppers. Emissions from the hoppers are vented to dry cyclones. Butterfly valves in the riser pipe routed to each dry cyclone are used to isolate or shut off airflow to hoppers not being used. Typically four of the six hoppers are used during unloading operations. Material can be transferred from the unloading hoppers to conveyor C17 for subsequent storage in silos via conveyors C19 and C38, or transferred for ship loading via conveyors C18, C12, C13 and C14.

Particulate matter emissions generated from the railcar unloading operation are controlled by six parallel dry cyclones followed by a 100,000 ACFM Amerex Type C Venturi scrubber and/or by the application of a dust suppressant oil applied to the product at the chemical processing facility prior to shipping.

EU No. 004: The C17 transfer point E directs material from Conveyor Belt No. C17 either to Conveyor Belt No. C18 or to Conveyor Belt No. C19. Particulate matter emissions generated during the transfer process are controlled by a 6000 ACFM Poly-Con, Model Venturi 1506MS, scrubber.

Essential Potential to Emit (PTE) Parameters

A.1. Capacity. The maximum product unloading rate shall not exceed 1800 tons/hour. [Rule 62-210.200, F.A.C., Definitions – Potential to Emit, and Construction Permit Nos. AC29-237340 and 0570024-016-AC]

A.2. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]

Emission Limitations and Standards

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

A.3. The maximum allowable particulate emissions from each scrubber shall not exceed the following for any given hour and any twelve consecutive month period: [Rules 62-4.070(3) and 62-296.711(b), F.A.C. and Construction Permit Nos. AC29-237340 and 0570024-016-AC]

a) EU No. 002 based on a design flow of 100,000 DSCFM:

Pollutant	tons/yr.	Allowable Emissions	Hours of Operation/Yr
Particulate Matter	28.2	0.01 grains/dscf	6570
Visible Emissions		5% opacity	

b) EU No. 004 based on a design flow of 6,000 DSCFM:

Pollutant	tons/yr.	Allowable Emissions	Hours of Operation/Yr
Particulate Matter	1.7	0.01 grains/dscf	6570
Visible Emissions		5% opacity	

A.4. The permittee shall not cause, permit, or allow any visible emissions (five percent opacity) from the railcar unloading operation and the scrubber exhaust, and from the C17 Transfer Point E and the scrubber exhaust. [Rule 62-296.711(a), F.A.C. and Construction Permit 0570024-016-AC]

A.5. During the handling of DAP with the scrubber(s) turned off, the following conditions shall be met: [Rule 62-4.070(3) F.A.C. and Construction Permit AC29-237340]

a) The opacity limitation in Specific Condition No. A.4. shall be monitored by a certified smoke reader.
b) The product shall be sufficiently treated with a non-hazardous oil or dust suppressant to meet the opacity limit in Specific Condition No. A.4.

A.6. The use of dust suppressant in lieu of operating the control system(s) during the handling of materials is allowed provided that the operation does not exceed the 5% opacity standard. [Rule 62-4.070(3), F.A.C. and Permit No. 0570024-016-AC]

Monitoring of Operations

A.7. CAM Plan. Emissions Unit No. 002 is subject to the Compliance Assurance Monitoring (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; Rules 62-204.800 and 62-213.440(1)(b)1.a., F.A.C.]

Test Methods and Procedures

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

A.8. Test Methods. Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5	Determination of particulate matter emissions from stationary sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rules 62-297.310(7)(a)4. and 62-297.401, F.A.C.]

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

A.10. Annual Compliance Tests Required. Test EU 002 (scrubber exhaust and the railcar unloading enclosure) and EU No. 004 (scrubber exhaust and transfer point enclosure) for opacity once per federal fiscal year (October1 - September 30) and submit two copies of test data to the Air Management Division of the Environmental Protection Commission of Hillsborough County within forty-five days of such testing. Testing procedures shall be consistent with the requirements of Rule 62-297.310, F.A.C. [Rule 62-297.310(7)(a)4., F.A.C.]

A.11. Annual Compliance Tests Required. Test EU No. 002 for particulate matter (PM) once per federal fiscal year (October1 - September 30) and submit two copies of test data to the Air Management Division of the Environmental Protection Commission of Hillsborough County within forty-five days of such testing. Testing procedures shall be consistent with the requirements of Rule 62-297.310, F.A.C. [Rule 62-297.310(7)(a)4., F.A.C.]

A.12. Compliance Tests Prior To Renewal. Test EU No. 004 for particulate matter (PM) within 120 days prior to expiration of this permit and submit two copies of test data to the Air Management Division of the Environmental Protection Commission of Hillsborough County within forty-five days of such testing. Testing procedures shall be consistent with the requirements of Rule 62-297.310, F.A.C. [Rules 62-297.310(7)(a)4. and 62-4.070(3), F.A.C.]

A.13. Compliance with the emission limitations of Specific Condition No. A.3. and A.4. shall be determined using EPA Methods 1, 2, 4, 5 and 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C. The EPA Method 9 test shall be conducted by a certified observer and be a minimum of sixty (60) minutes in duration for the scrubber exhaust and thirty (30) minutes in duration for the railcar enclosure. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Rule 62-297, F.A.C. and 40 CFR 60, Appendix A. [Rule 62-297.310(4)(a)2., F.A.C.]

A.14. Testing of emissions shall be conducted with the source operating at capacity. Capacity is defined as 90-100% of the maximum unloading rates of 1800 TPH. If it is impracticable to test at capacity, then the source may be tested at less than capacity; in this case subsequent source operation is limited to 110% of the test load until a new test is conducted. Once the unit is so limited, then operation at higher capacities is allowed for no more than fifteen days for purposes of additional compliance testing to regain the rated capacity in the permit, with prior notification to the EPC. Failure to submit the input rates and actual operating conditions of the scrubber such as inlet pressure drop and liquor feed rate, may invalidate the test. [Rules 62-297.310(2) and 62-4.070(3), F.A.C.]

Recordkeeping and Reporting Requirements

A.15. In order to demonstrate compliance with Specific Condition Nos. A.1. and A.3., the permittee shall maintain a monthly recordkeeping system for the most recent 5 year period. The records shall be

made available to the EPC of Hillsborough County, state or federal air pollution agency upon request. The records shall include, but are not limited to, the following: [Rule 62-4.070(3), F.A.C.]

a) Day, Month, Year
b) Amount and type of dust suppressant applied (gallon/ton) for each oiled product unloaded during the preceding month.
c) Certificate for smoke reader at the facility who monitored DAP or other fertilizer product unloading with the scrubber off.
d) Hours of operation for each emission unit and scrubbers
e) Amount and type of material unloaded from railcars (tons)
f) Rolling twelve month total of d) and e) above for each material handled

A.16. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

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

EU No.	Brief Description
-003	Shiploading Operation (C13 to C14)
-005	C12 Transfer Point A (C12 to C13)
-006	C30 Transfer Point C (C30 to C12)
-013	Shiphold Loading (C14 to telescopic chute)

EU Nos. 003 and No. 013: The shiphold loading operation involves the loading of phosphate rock, fertilizer products, AFI and/or other bulk material, which can be conveyed either directly from the railcar, truck, storage buildings, or from the storage silos to the shiphold using a series of conveyor belts, Conveyor Belt Nos. C12, C13, and C14. A telescopic chute and an OBA chokefeeder are used to load the shiphold.

Particulate matter emissions generated during the shiphold loading operation (C13 to C14 and C14 to telescopic chute) are controlled by a 9,000 DSCFM General Electric Pulse-Jet baghouse and/or a gantry mounted dust suppression system. The dust suppression system consists of one spray header equipped with four spray nozzles located inside the gantry using water or a surfactant chemical that is mixed with water.

EU No. 005: The C12 Transfer Point A transfers material from Conveyor Belt No. C12 to Conveyor Belt No. C13. Particulate emissions generated during the transfer process are controlled by a 3,000 DSCFM GE Energy Pulse Jet Horizontal Collector.

EU No. 006: The C30 Transfer Point C is used to transfer material from Conveyor Belt No. C30 to Conveyor Belt No. C12. Particulate matter emissions generated during the transfer operation are controlled by a 3,000 DSCFM GE Energy Pulse Jet Horizontal Collector.

Essential Potential to Emit (PTE) Parameters

B.1. Capacity. The maximum transfer rate for each emission unit shall not exceed 2,300 tons/hour. [Rules 62-210.200, Definitions - (PTE) and 62-4.070(3), F.A.C. and Permit Nos. 0570024-017-AC and 0570024-018-AC]

B.2. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]

Emission Limitations and Standards

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

B.3. The maximum allowable particulate matter emissions for each baghouse shall not exceed the following for any given hour and for any 12 consecutive month period: [Rule 62-296.711(2)(b), F.A.C. and Permit Nos. 0570024-016-AC, 0570024-017-AC, and 0570024-018-AC]

a) EU No. 003/013 based on a design flow of 9,000 DSCFM:

Pollutant	tons/yr.	Allowable Emissions	Hours of Operation/Yr
Particulate Matter	7.6	0.03 grains/dscf	6,570

b) EU No. 005 based on a design flow of 3,000 DSCFM:

Pollutant	tons/yr.	Allowable Emissions	Hours of Operation/Yr
Particulate Matter	2.5	0.03 grains/dscf	6,570

c) EU No. 006 based on a design flow of 3,000 DSCFM:

Pollutant	tons/yr.	Allowable Emissions	Hours of Operation/Yr
Particulate Matter	2.5	0.03 grains/dscf	6,570

B.4. The permittee shall not cause, permit, or allow any visible emissions (five percent opacity) from any emission unit, transfer point, or activity associated with the Emission Units except where material is being discharged to the hold of a ship from a conveyor system. When the conveyor and/or hatch covering is moved, an opacity of 10 percent will be allowed. [Rule 62-296.711(2)(a), F.A.C. and Permit Nos. 0570024-017-AC and 0570024-018-AC]

B.5. In order to demonstrate compliance with the limits of Specific Condition Nos. B.3. and B.4., the following restrictions shall apply: [Rule 62-4.070(3), F.A.C.]

a) All dust laden air from each transfer operation shall be vented to the corresponding baghouse, unless the material has been treated with a dust suppressant.
b) The gantry dust suppression system shall be maintained in operable condition so that it can be operated at any time as necessary during the loading of material to maintain compliance with the permitted opacity limit.
c) The permittee shall ensure that the telescopic chute is in good operating condition and free of leaks prior to each ship loading operation.

B.6. The use of dust suppressant in lieu of operating the current control system(s) during the handling of materials is allowed provided that the operation does not exceed the 5% opacity standard. [Rule 62-4.070(3), F.A.C.]

Monitoring of Operations

B.7. CAM Plan. Emissions Unit Nos. 003 and 013 are subject to the Compliance Assurance Monitoring (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; Rules 62-204.800 and 62-213.440(1)(b)1.a., F.A.C.]

Test Methods and Procedures

{Permitting Note: The attached Table 2, 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.8. Test Methods. Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5	Determination of particulate matter emissions from stationary sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rules 62-297.310(7)(a)4. and 62-297.401, F.A.C.]

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

B.10. Annual Compliance Tests Required. Test the emissions from the following emission units for opacity once per federal fiscal year (October 1 - September 30) and submit two copies of test data to the Air Management Division of the Environmental Protection Commission of Hillsborough County within forty-five days of such testing. Testing procedures shall be consistent with the requirements of Rule 62-297.310, F.A.C. [Rule 62-297.310, F.A.C.]

a) The shiploading operation and baghouse - Emission Unit No. 003
b) Shiphold opening - Emission Unit No. 013
c) C12 Transfer Point A – Emission Unit No. 005 at the point of highest opacity
d) C30 Transfer Point C - Emission Unit No. 006 at the point of highest opacity
e) Test the shiphold opening, shiploading operation, and the baghouse exhaust each time a new material is handled during the loading of the ship. (Permitting Note: For the purposes of this Specific Condition, "new material" shall mean a material which has never been loaded out and VE tested while being handled through EU 003 and 013.)

B.11. Compliance Tests Prior To Renewal. Test Emission Unit Nos. 003 and 013 for particulate matter at least 120 days prior to the expiration date of this permit. In the event that dry phosphate pebble rock is handled at the facility, a particulate matter test shall be performed on Emission Units 003 and 013. Particulate test shall be conducted under the similar process rate and operating condition(s) as the visible emission test for the baghouse exhaust. If possible, the visible emission test shall be performed simultaneously with one of the test runs for the particulate matter emissions. [Rule 62-297.310(7)(a)3., F.A.C.]

B.12. Compliance with the emission limitations of Specific Condition No. B.3. and B.4. shall be determined using EPA Methods 1, 2, 4, 5 and 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C. The EPA Method 9 test interval on the source shall be thirty (30) minutes in duration, and the test shall be conducted concurrently on the control equipment exhaust and the transfer point. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Rule 62-297, F.A.C. and 40 CFR 60, Appendix A. The test report shall indicate whether the gantry dust suppression system was operating during the visible emission readings. [Rule 62-297.310(4)(a)2., F.A.C.]

B.13. Testing of emissions shall be conducted with the source operating at capacity. Capacity is defined as 90-100% of handling 2300 TPH for all materials. If it is impracticable to test at capacity, then the source may be tested at less than capacity; in this case subsequent source operation is limited to 110% of the test load until a new test is conducted. Once the unit is so limited, then operation at higher capacities is allowed for no more than fifteen days for purposes of additional compliance testing to regain the rated capacity in the permit, with prior notification to the EPC. Failure to submit the input rates and actual operating conditions may invalidate the test. [Rules 62-297.310(2) and 62-4.070(3), F.A.C.]

Recordkeeping and Reporting Requirements

B.14. In order to demonstrate compliance with Specific Condition Nos. B.1. and B.3., the permittee shall maintain a monthly recordkeeping system for the most recent five year period. The records shall be made available to the Environmental Protection Commission of Hillsborough County, state, or federal air pollution agency upon request. The records shall include, but not limited to, the following: [Rule 62-4.070(3), F.A.C.]

a) Day, Month, year
b) Hours of operation for each emission unit and baghouse
c) Amount and type of material loaded into ships (tons)
d) Rolling twelve month total of b) and c) above for each material handled

B.15. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

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

EU No.	Brief Description
-007	C18 Conveyor Transfer Point D (C18 to C12)
-009	C19 Conveyor Transfer Point G (C19 to C38)

EU No. 007: The C18 conveyor transfer point D transfers material from Conveyor Belt No. C18 to Conveyor Belt No. C12. Particulate matter emissions generated during the transfer process are controlled by a 6,000 ACFM Mikro-Pulsaire, Model 1215-8-80, baghouse.

EU No. 009: The C19 Conveyor Transfer Point G transfers material from Conveyor Belt No. C19 to Conveyor Belt No. C38. Particulate matter emissions generated during the transfer process are controlled by a 5,000 ACFM Mikro-Pulsaire, Model 1215-8-80, baghouse.

Essential Potential to Emit (PTE) Parameters

C.1. Capacity. The maximum transfer rate of material shall not exceed 1800 tons/hour. [Rules 62-210.200, Definitions - (PTE) and 62-4.070(3), F.A.C. and Permit No. 0570024-016-AC]

C.2. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]

Emission Limitations and Standards

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

C.3. The maximum allowable particulate matter emissions from each baghouse shall not exceed the following for any given hour and for any 12 consecutive month period: [Rule 62-296.711(2)(b), F.A.C. and Permit No. 0570024-016-AC]

a) EU No. 007 based on a design flow of 6,000 DSCFM:

Pollutant	tons/yr.	Allowable Emissions	Hours of Operation/Yr
Particulate Matter	1.7	0.01 grains/dscf	6570

b) EU No. 009 based on a design flow of 4,200 DSCFM:

Pollutant	tons/yr.	Allowable Emissions	Hours of Operation/Yr
Particulate Matter	1.2	0.01 grains/dscf	6570

C.4. The permittee shall not cause, permit, or allow any visible emissions (five percent opacity) from each emission unit and baghouse exhaust. [Rule 62-296.711(2)(a), F.A.C.]

C.5. The permittee is allowed to handle dust suppressant oiled DAP product with the control device turned off provided that: [Rule 62-4.070(3), F.A.C.]

a) Visible emissions at each transfer point shall be less than 5 % opacity.
b) The product shall be sufficiently treated with a non-hazardous oil or dust suppressant to meet the opacity limit in Specific Condition No. C.4.

C.6. In order to demonstrate compliance with the limits of Specific Condition Nos. C.3. and C.4., all dust laden air from each transfer operation shall be vented to the corresponding baghouse, unless the material has been treated with a dust suppressant. [Rule 62-4.070(3), F.A.C.]

Test Methods and Procedures

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

C.7. Test Methods. Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5	Determination of Particulate Matter Emissions From Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rules 62-297.310(7)(a)4. and 62-297.401, F.A.C.]

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

C.9. Annual Compliance Tests Required. Test the emissions from each emission unit and baghouse exhaust for opacity once per federal fiscal year (October 1 - September 30) and submit two copies of test data to the Air Management Division of the Environmental Protection Commission of Hillsborough County within forty-five days of such testing. Testing procedures shall be consistent with the requirements of Rule 62-297.310, F.A.C. [Rule 62-297.310(7)(a)4., F.A.C.]

C.10. Compliance Tests Prior To Renewal. Test each emission unit for particulate matter at least 120 days prior to the expiration date of this permit. Particulate test shall be conducted under similar process rate(s) and operating condition(s) as the visible emission test for the baghouse exhaust. If possible, the visible emission test shall be performed simultaneously with one of the test runs for the particulate matter emissions. [Rule 62-297.310(7)(a)3., F.A.C.]

C.11. Compliance with the emission limitations of Specific Condition No. C.3. and C.4. shall be determined using EPA Methods 1, 2, 4, 5 and 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C. The EPA Method 9 test shall be thirty (30) minutes in duration, and the test shall be conducted concurrently on the control equipment exhaust and the corresponding transfer point.

The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Rule 62-297, F.A.C. and 40 CFR 60, Appendix A. [Rule 62-297.310(4)(a)2., F.A.C.]

C.12. Testing of emissions shall be conducted with the source operating at capacity. Capacity is defined as 90-100% of the maximum unloading rates of 1800 TPH. If it is impracticable to test at capacity, then the source may be tested at less than capacity; in this case subsequent source operation is limited to 110% of the test load until a new test is conducted. Once the unit is so limited, then operation at higher capacities is allowed for no more than fifteen days for purposes of additional compliance testing to regain the rated capacity in the permit, with prior notification to the EPC. Failure to submit the input rates and actual operating conditions may invalidate the test. [Rules 62-297.310(2) and 62-4.070(3), F.A.C.]

Recordkeeping and Reporting Requirements

C.13. In order to demonstrate compliance with Specific Condition No. C.1., the permittee shall maintain a monthly recordkeeping system for the most recent five year period. The records shall be made available to the Environmental Protection Commission of Hillsborough County, state or federal air pollution agency upon request. The records shall include, but not limited to, the following: [Rule 62-4.070(3), F.A.C.]

a) Day, Month, Year
b) Hours of operation for each emission unit and baghouse
c) Amount and type of material transferred on each conveyor system (tons)
d) Rolling twelve month total of b) and c) above.

C.14. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

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

EU No.	Brief Description
-008	Material Handling and Storage Silos

The material handling and storage operation consists of a truck unloading station, three storage silos, and a transfer conveyor system. Material is conveyed from the truck unloading station to three storage silos using Conveyor Belt No. C92. Material is unloaded from the silos and conveyed to Conveyor Belt No. C12 using Conveyor Belt No. C93 when it is ready for ship loading.

Particulate matter emissions generated during the loading of any silo are controlled by a common 3,565 ACFM Mikro-Pulsaire, Model 49S-8-20, baghouse. Particulate matter emissions from the conveyor transfer points and the truck unloading station are controlled through the use of partial enclosures.

Essential Potential to Emit (PTE) Parameters

D.1. Capacity. The maximum material handling rate shall not exceed 120 tons per hour and 300,000 tons per year for any 12 consecutive month period. [Rules 62-210.200, Definitions - (PTE) and 62-4.070(3), F.A.C. and Construction Permit AC29-22822]

D.2. Hours of Operation. The hours of operation for this emissions unit shall not exceed 2,500 hours/year. [Rules 62-210.200, Definitions - (PTE) and 62-4.070(3), F.A.C.]

D.3. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]

Emission Limitations and Standards

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

D.4. The maximum allowable particulate matter emissions from the common Mikro-Pulsaire, Model 49S-8-20, baghouse shall not exceed the following for any given hour and for any 12 consecutive month period: [Rule 62-4.070(3), F.A.C. and Construction Permit Nos. AC29-22822 and 0570024-016-AC]

a) EU No. 008 based on a design flow of 3,200 DSCFM:

Pollutant	tons/yr.	Emission Limitation
Particulate Matter	0.6	0.02 grains/dscf

D.5. The permittee shall not cause, permit, or allow any visible emissions (five percent opacity) from each emission unit and baghouse exhaust. [Rule 62-296.711(2)(a), F.A.C. and 0570024-016-AC]

D.6. In order to demonstrate compliance with the limits of Specific Condition Nos. D.4. and D.5., all dust laden air from the transfer operation shall be vented to the corresponding baghouse, unless the material has been treated with a dust suppressant. [Rule 62-4.070(3), F.A.C.]

Test Methods and Procedures

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

D.7. Test Methods. Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5	Determination of Particulate Matter Emissions From Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rules 62-297.310(7)(a)4. and 62-297.401, F.A.C.]

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

D.9. Annual Compliance Tests Required. Test the emissions from the emission unit and baghouse exhaust for opacity once per federal fiscal year (October1 - September 30) and submit two copies of test data to the Air Management Division of the Environmental Protection Commission of Hillsborough County within forty-five days of such testing. Testing procedures shall be consistent with the requirements of Rule 62-297.310, F.A.C. [Rule 62-297.310(7)(a)4., F.A.C.]

D.10. Compliance Tests Prior To Renewal. Test the emission unit for particulate matter at least 120 days prior to the expiration date of this permit. Particulate test shall be conducted under similar process rate(s) and operating condition(s) as the visible emission test for the baghouse exhaust. If possible, the visible emission test shall be performed simultaneously with one of the test runs for the particulate matter emissions. [Rule 62-297.310(7)(a)3., F.A.C.]

D.11. Compliance with the emission limitations of Specific Condition No. D.4. and D.5. shall be determined using EPA Methods 1, 2, 4, 5 and 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C. The EPA Method 9 test interval shall be thirty (30) minutes in duration, and the test shall be conducted concurrently on the control equipment exhaust and the corresponding transfer point. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Rule 62-297, F.A.C. and 40 CFR 60, Appendix A. [Rule 62-297.310(4)(a)2., F.A.C.]

D.12. Testing of emissions shall be conducted with the source operating at capacity. Capacity is defined as 90-100% of the maximum handling rate of 120 tons per hour of material. If it is impracticable to test at capacity, then the source may be tested at less than capacity; in this case subsequent source operation is

limited to 110% of the test load until a new test is conducted. Once the unit is so limited, then operation at higher capacities is allowed for no more than fifteen days for purposes of additional compliance testing to regain the rated capacity in the permit, with prior notification to the EPC. Failure to submit the input rates and actual operating conditions may invalidate the test. [Rules 62-4.070(3) and 62-297.310(2), F.A.C.]

Recordkeeping and Reporting Requirements

D.13. In order to demonstrate compliance with Specific Condition Nos. D.1. and D.2., the permittee shall maintain a monthly recordkeeping system for the most recent five year period. The records shall be made available to the Environmental Protection Commission of Hillsborough County, state or federal air pollution agency upon request. The records shall include, but not limited to, the following: [Rule 62-4.070(3), F.A.C.]

a) Day, Month, Year
b) Hours of operation of the emission unit and baghouse
c) Amount and type of material unloaded from trucks (tons) into the silos
d) Rolling twelve month total of b) and c) above.

D.14. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

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

EU No.	Brief Description
-012	Railcar Transfer to Storage Silos

Material unloaded at the railcar unloading station can either be conveyed to sixteen outer storage silos (Silo Nos. 1 – 16) using a series of conveyor belts, Conveyor Belt Nos. C27, C44, and C28, or to seven smaller inner storage silos (Silo Nos. 17 -23) using a series of conveyor belts, Conveyor Belt Nos. C19, C38, and C29. All silos are unloaded using Conveyor Belt No. 30.

Particulate matter emissions generated by this material handling operation are controlled by a 23,100 DSCFM Ducon Venturi Oriclone, VVO, 36/84 scrubber located at ground level directly north of the storage silos. The scrubber has three vents which pickup on: (1) outer silos 9-16, inner silos 21-23, and conveyor 27; (2) outer silo 7, inner silo 20, conveyors 38 and 44; (3) and outer silos 1-6, 8 and inner silos 17-19.

Essential Potential to Emit (PTE) Parameters

E.1. Capacity. The maximum railcar unloading and transfer rate of material shall not exceed 1800 TPH. [Rules 62-210.200, Definitions - (PTE) and 62-4.070(3), F.A.C. and Permit No. 0570024-016-AC]

E.2. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]

Emission Limitations and Standards

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

E.3. The maximum allowable particulate matter emissions for the scrubber shall not exceed the following for any given hour and for any 12 consecutive month period: [Rule 62-296.711(2)(b), F.A.C. and Permit No. 0570024-016-AC]

a) EU No. 012 based on a design flow of 23,100 DSCFM:

Pollutant	tons/yr.	Allowable Emissions	Hours of Operation/Yr
Particulate Matter	6.5	0.01 grains/dscf	6570

E.4. The permittee shall not cause, permit, or allow any visible emissions (five percent opacity) from the emission unit and scrubber exhaust. [Rule 62-296.711(2)(a), F.A.C.]

Monitoring of Operations

E.5. CAM Plan. This Emissions Unit is subject to the Compliance Assurance Monitoring (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; Rules 62-204.800 and 62-213.440(1)(b)1.a., F.A.C.]

Test Methods and Procedures

{Permitting Note: The attached Table 2, 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. Test Methods. Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5	Determination of Particulate Matter Emissions From Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rules 62-297.310(7)(a)4. and 62-297.401, F.A.C.]

E.7. 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, F.A.C.]

E.8. Annual Compliance Tests Required. Test the emissions from the emission unit and scrubber exhaust for opacity once per federal fiscal year (October1 - September 30) and submit two copies of test data to the Air Management Division of the Environmental Protection Commission of Hillsborough County within forty-five days of such testing. Testing procedures shall be consistent with the requirements of Rule 62-297.310, F.A.C. [Rule 62-297.310(7)(a)4., F.A.C.]

E.9. Compliance Tests Prior To Renewal. Test the emission unit for particulate matter at least 120 days prior to the expiration date of this permit. Particulate test shall be conducted under similar process rate(s) and operating condition(s) as the visible emission test for the scrubber exhaust. If possible, the visible emission test shall be performed simultaneously with one of the test runs for the particulate matter emissions. [Rule 62-297.310(7)(a)3., F.A.C.]

E.10. Compliance with the emission limitations of Specific Condition No. F.3. and F.4. shall be determined using EPA Methods 1, 2, 4, 5 and 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C. The EPA Method 9 test shall be thirty (30) minutes in duration, and the test shall be conducted concurrently on the control equipment exhaust and the corresponding transfer point. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Rule 62-297, F.A.C. and 40 CFR 60, Appendix A. The test report shall indicate whether the dust suppression system was operating during the visible emission readings. [Rule 62-297.310(4)(a)2., F.A.C.]

E.11. Testing of emissions shall be conducted with the source operating at capacity. Capacity is defined as 90-100% of the maximum material handling rate of 1800 tons/hour. If it is impracticable to test at capacity, then the source may be tested at less than capacity; in this case subsequent source operation is limited to 110% of the test load until a new test is conducted. Once the unit is so limited, then operation at higher capacities is allowed for no more than fifteen days for purposes of additional compliance testing to regain the rated capacity in the permit, with prior notification to the EPC. Failure to submit the input rates and actual operating conditions may invalidate the test. [Rules 62-4.070(3) and 62-297.310(2), F.A.C.]

Recordkeeping and Reporting Requirements

E.12. In order to demonstrate compliance with Specific Condition No. E.1., the permittee shall maintain a monthly recordkeeping system for the most recent five year period. The records shall be made available to the Environmental Protection Commission of Hillsborough County, state or federal air pollution agency upon request. The records shall include, but not limited to, the following: [Rule 62-4.070(3), F.A.C.]

a) Day, Month, Year
b) Hours of operation of the emission unit and scrubber
c) Amount and type of material loaded into the silos (tons)
d) Rolling twelve month total of b) and c) above

E.13. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

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

EU No.	Brief Description
-100	Truck and Railcar Unloading Station No. 2 and Transfer Points (C2, C3, C4, C7, C11, C94) in Storage Building Nos. 1 and 2

Trucks and railcars are driven into a partially enclosed structure and unload material through grates in the floor of the structure. The material is conveyed into three storage silos using a series of conveyor belts, Conveyor Belt Nos. C2, C4, C7, and C94, and a bucket elevator, No. C3. Material is transferred from Conveyor Belt No. C2 to Bucket elevator No. C3 and then to Conveyor Belt No. C4. Conveyor Belt No. C4 transfers the material to either Conveyor Belt No. C7 or C11. Conveyor Belt No. C7 transfers material to Conveyor Belt No. C94 which loads the three storage silos associated with EU 008. Conveyor Belt No. C11 transfers material to Conveyor Belt No. C18 using the C18 Transfer Point D. Conveyor Belt Nos. C4 and C7 are completely enclosed in Storage Building Nos. 1 and 2.

Essential Potential to Emit (PTE) Parameters

F.1. Capacity. The maximum unloading rate shall not exceed 250 tons per hour. [Rules 62-210.200, Definitions - PTE and 62-4.070(3), F.A.C. and Permit No. 0570024-016-AC]

F.2. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]

Emission Limitations and Standards

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

F.3. The permittee shall not cause, permit, or allow any visible emissions (five percent opacity) from any emission point associated with this emission unit. [Rule 62-296.711(2)(a), F.A.C.]

Test Methods and Procedures

{Permitting Note: The attached Table 2, 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.4. Test Methods. Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rules 62-297.310(7)(a)4. and 62-297.401, F.A.C.]

F.5. 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, F.A.C.]

F.6. Annual Compliance Tests Required. Test the emissions from each transfer point for opacity once per federal fiscal year (October1 - September 30) and submit two copies of test data to the Air Management Division of the Environmental Protection Commission of Hillsborough County within forty-five days of such testing. Testing procedures shall be consistent with the requirements of Rule 62-297.310, F.A.C. [Rule 62-297.310(7)(a)4., F.A.C.]

F.7. Compliance with the emission limitations of Specific Condition No. F.3. shall be determined using EPA Method 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C. The EPA Method 9 test shall be thirty (30) minutes in duration. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Rule 62-297, F.A.C. and 40 CFR 60, Appendix A. [Rule 62-297.310(4)(a)2., F.A.C.]

F.8. Testing of emissions shall be conducted with the source operating at capacity. Capacity is defined as 90-100% of the maximum material transfer rate of 250 tons/hour. If it is impracticable to test at capacity, then the source may be tested at less than capacity; in this case subsequent source operation is limited to 110% of the test load until a new test is conducted. Once the unit is so limited, then operation at higher capacities is allowed for no more than fifteen days for purposes of additional compliance testing to regain the rated capacity in the permit, with prior notification to the EPC. Failure to submit the input rates and actual operating conditions may invalidate the test. [Rules 62-4.070(3) and 62-297.310(2), F.A.C.]

Recordkeeping and Reporting Requirements

F.9. In order to demonstrate compliance with Specific Condition No. F.1., the permittee shall maintain a recordkeeping system for the most recent five year period. The records shall be made available to the Environmental Protection Commission of Hillsborough County, state or federal air pollution agency upon request. The records shall include, but not limited to, the following: [Rule 62-4.070(3), F.A.C.]

a) Day, Month, Year
b) Hours of operation
c) Amount and type of material unloaded by truck and railcar (tons)
d) Rolling twelve month total of c) above

F.10. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

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

EU No.	Brief Description
-102	Truck Unloading Station No. 1 and Transfer Point (C82 to C83)
-103	Transfer Points (C83, C84 and C104) in Storage Building No. 3

Trucks are driven into a partially enclosed structure and unload material through grates in the floor of the structure. The materials are dropped onto Conveyor Belt No. C82, which transfers the material from the truck unloading Station No. 1 to Conveyor Belt No. C83. This transfer point is entirely enclosed. Conveyor Belt No. C83 transfers the material to Conveyor Belt No. C84, which is located inside Storage Building No. 3. Inside the building there is a movable tipper which allows the storage piles to be placed at different locations within the building. Materials are moved within the building with a front end loader, which is also used to transfer the material out of the building to a hopper located on the side of the storage building. The hopper feeds Conveyor Belt No. C104, which transfers material to Conveyor Belt No. C12, using the C12 Transfer Point A associated with EU 005. Storage Building No. 3 is solely associated with Truck Unloading Station No. 1.

Particulate matter emissions are controlled through the use of dust suppressants (oiling) and enclosures.

Essential Potential to Emit (PTE) Parameters

G.1. Capacity. The maximum truck unloading rate shall not exceed 400 tons per hour. [Rules 62-210.200, Definitions – PTE and 62-4.070(3), F.A.C. and Permit No. 0570024-016-AC]

G.2. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year. [Rules 62-210.200, Definitions – PTE and 62-4.070(3), F.A.C.]

G.3. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]

Emission Limitations and Standards

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

G.4. The permittee shall not cause, permit, or allow any visible emissions (five percent opacity) from any emission point associated with the Truck Unloading Station No. 1 and the Storage Building No. 3. [Rule 62-296.711(2)(a), F.A.C.]

Test Methods and Procedures

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

G.5. Test Methods. Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5	Determination of Particulate Matter Emissions From Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rules 62-297.310(7)(a)4. and 62-297.401, F.A.C.]

G.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, F.A.C.]

G.7. Annual Compliance Tests Required. Test each transfer point associated with Emission Unit Nos. 102 and 103 once per federal fiscal year (October1 - September 30) for opacity and submit two copies of test data to the Air Management Division of the Environmental Protection Commission of Hillsborough County within forty-five days of such testing. Testing procedures shall be consistent with the requirements of Rule 62-297.310, F.A.C. [Rule 62-297.310(7)(a)4., F.A.C.]

G.8. Compliance with the emission limitations of Specific Condition No. G.4. shall be determined using EPA Method 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C. The EPA Method 9 test shall be thirty (30) minutes in duration. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Rule 62-297, F.A.C. and 40 CFR 60, Appendix A. [Rule 62-297.310(4)(a)2., F.A.C.]

G.9. Testing of emissions shall be conducted with the source operating at capacity. Capacity is defined as 90-100% of the maximum handling rate of 400 tons/hour. If it is impracticable to test at capacity, then the source may be tested at less than capacity; in this case subsequent source operation is limited to 110% of the test load until a new test is conducted. Once the unit is so limited, then operation at higher capacities is allowed for no more than fifteen days for purposes of additional compliance testing to regain the rated capacity in the permit, with prior notification to the EPC. Failure to submit the input rates and actual operating conditions may invalidate the test. [Rules 62-4.070(3) and 62-297.310(2), F.A.C.]

Recordkeeping and Reporting Requirements

G.10. In order to demonstrate compliance with Specific Condition Nos. G.1. and G.2., the permittee shall maintain a monthly recordkeeping system for the most recent five year period. The records shall be made available to the Environmental Protection Commission of Hillsborough County, state or federal air pollution agency upon request. The records shall include, but not limited to, the following: [Rule 62-4.070(3), F.A.C.]

a) Day, Month, Year
b) Hours of operation of each emission unit
c) Amount and type of material unloaded from trucks (tons)

d) Amount and type of material transferred from the Storage Building No. 3 to the Conveyor No. 12 Transfer Point A (tons)
e) Written documentation, which may include shipping trails, showing the GTSP stored at the site is more than 72 hours old.
f) Rolling twelve month total of c) and d) above.

G.11. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

Other Requirements

G.12. In order to exempt the material transfer equipment referenced above from 40 CFR 60, Subpart X, the permittee shall not handle or store at the facility GTSP which is less than or equal to 72 hours old. [40 CFR 60.241(a) and (d) and Construction Permit No. 0570024-016-AC]

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

EU No.	Brief Description
-104	Clamshell to Hopper(s) RH-01 and RH-02
-105	RH-01 and RH-02 to Conveyor BC-01
-106	Conveyor BC-01 to Radial Stacker RS-01
-107	RS-01 to Conveyor BC-02 or Conveyor PC-01
-108	Conveyor BC-02 to Conveyor BC-03 or PC-01 to Conveyor PC-02
-109	Conveyor BC-03 to Stacker Wing or PC-02 to Radial Stacker RS-02
-110	Stacker Wing to Storage Pile or RS-02 to Storage Pile
-111	Front End Loader to Truck/Railcar
-112	Stevedoring at Other Berths

The stevedoring operation involves the loading and unloading of various bulk materials that include fertilizer materials, coal, limestone, granite, bauxite, etc., onto and from marine vessels, which can utilize up to three portable clamshell cranes. Material can also be unloaded by self unloading vessels. These materials are divided into different group categories. These operations are authorized for the Tampaplex facility and at numerous berths in Hillsborough County and include the use of hoppers, belt conveyors, radial stackers and a front-end loader.

Particulate matter (PM) emissions from these facility operations are controlled by the use of a water spray system and partial enclosures, and or dust suppressants. The facility also operates a truck wheel wash to wash particulate material from truck tires prior to the trucks leaving the site.

These emission units are regulated under Rule 62- 296.711, F.A.C., and Chapter 1-3.52, Rules of the EPC, which limit the visible emissions to a 5% opacity standard for all of the material handling operations.

Essential Potential to Emit (PTE) Parameters

H.1. In order to limit the potential to emit, the total potential particulate matter emissions from the Stevedoring operation shall not exceed 198 tons per twelve consecutive month period. [Rules 62-210.200(244), 62-4.070(3), and 62-212.300, F.A.C. and Permit No. 0570024-016-AC]

H.2. In order to ensure compliance with Facility Wide and Specific Condition Nos. FW13. and H.1., respectively, the following limitations shall apply per any twelve consecutive month period: [Rule 62-4.070(3), F.A.C. and Permit No. 0570024-016-AC]

A) The Stevedoring operation is permitted to handle the following materials only:

Group I – Dusty Fertilizers		
Ammonium Sulfate	Granular Sulfate of Potash	Animal Feed Ingredients
Standard Muriate of Potash	Standard Sulfate of Potash	Standard Potassium Nitrate
Granular Muriate of Potash	Granular Sulfate of Potash-Magnesium	Standard Sulfate of Potash-Magnesium
Group II – Phosphate Rock		
Phosphate Products Rock		
Group III – Minimally Dusty Fertilizers		
Ammonium Nitrate	Sodium Potassium Nitrate	MAP
Calcium Ammonium Nitrate	Compound Fertilizers	DAP
Potassium Nitrate	Dried Sludge	GTSP
Calcium Nitrate	Urea	Kieserite
Group I V – Millscale		
Millscale		
Group V– Moderately Dusty Non-Fertilizer Products		
Coal	Syngypsum	Clay
Petcoke	Iron Ore	Magnetite/Ferrous Oxides
Group VI – Minimally Dusty Non-Fertilizer Products		
Gypsum	Alumina Hydrate	Filler Materials
Pumice	Vermiculite	Peanut Hulls
Wood Chips	Dolomite	Salt (solar)
Ferrous Sulfate	Glass	Bio-Mass
Ferro Alloys	Iron Scrap (including shredded scrap metal)	Granulated Furnace Slag
Clinker (treated or screened)	Prilled Sulfur	
Group VII – Coal Slag		
Coal Slag		
Group VIII – Agricultural Products		
Grains	Grain Meals	Seeds
Soybeans	Grain Byproducts	Peas
Wheat, Rye, Barley	Citrus Pellets	
Group IX – Bauxite/Alumina and similar Dusty Cement-like Products		
Bauxite	Alumina	Slag Cement

Group X - Aggregate		
Limestone	Granite	Rocks
Gravel	Stone	
Group XI – Sand and Similar Materials		
Sand	Soil	Limestone Fines
Dirt		

B) When calculating particulate matter emissions in order to demonstrate compliance with Specific Condition Nos. FW13. and H.1., the emission factors and control efficiencies listed below for each group of material shall be used.

Group Number	Emission Factor	Control Efficiency for Water Sprays	Max. Number of Transfer Points
I	0.016	0.9	8
II	0.24	0.9	8
III	0.01	0.9	8
IV	6.8	0.9	8
V	0.2	0.9	8
VI	1.1	0.9	8
VII	0.067	0.9	8
VIII	0.086	0.9	8
IX	1.1	0.9	8
X	0.004	0.9	8
XI	0.31	0.9	8

C) Millscale shall be treated with water or a dust suppressant at the first material transfer point and subsequent material transfer points as necessary to meet the 5% opacity standard.
D) All materials in Group IX shall be treated with a dust suppressant at the first material transfer point and subsequent material transfer points as necessary to meet the 5% opacity standard.

Conditions Specific to the Operation at Kinder Morgan's Tampaplex Berth

H.3. In order to ensure compliance with Specific Condition Nos. H.1., H.2., and H.7., the following limitations and restrictions shall apply: [Rule 62-4.070(3), F.A.C.]

A) The maximum throughput of the conveying system shall not exceed 1000 tons per hour of material.
B) The conveyors shall have 180 degree covers except for BC-01 and BC-03.
C) The receiving hoppers shall be equipped with wind shields and water sprays and the material drop height shall be minimized to the extent practicable. In no case shall the drop height be greater than 5 feet or above the top of the wind shields.
D) The number of transfer points shall not exceed eight.
E) The permittee shall operate a maximum of two ship unloading cranes.

F) In order to determine the optimum dust suppression system settings during material unloading, Kinder Morgan shall develop and maintain a Dust Suppression System Operation Plan. This Plan shall be developed on a per-material basis and shall include, but is not be limited to the recording of the following data: the material being transferred, moisture content of material, material transfer rate, weather conditions, and the water flow rate at each material transfer point, along with the number of nozzles required for operation at each transfer point to ensure compliance with the 5% opacity standard. Visible emission testing shall be performed during the development of this Plan to determine and record the specific flow rates and number of nozzles required for operation at each material transfer point to ensure compliance with the 5% opacity standard. The results of the visible emission testing performed during the development of the Operation Plan do not need to be submitted for review by the Environmental Protection Commission but shall be kept on-site and made available upon request. The Operation Plan shall be updated as material unloading conditions warrant to ensure visible emission compliance. Once an Operation Plan has been developed for a material, it shall be followed when unloading that material. The plans shall be maintained onsite and shall be made available upon request to any local, state, or federal air pollution agency.

G) The permittee shall install, calibrate, and maintain flow meters for Emission Unit Nos. 104 through 110.

H) The haul road down the middle of the storage pile area and to the north of the storage pile area shall be paved and maintained.

I) A truck wash station shall be installed so that each truck leaving the facility exits through a washing station.

J) No blowers shall be used in the vessel holds.

K) Vehicles shall be completely enclosed by design or shall be enclosed with tarps prior to leaving the facility.

L) The unbound (sorbed) moisture percent in petroleum coke shall not be less than 4%.

<u>Conditions Specific to Operation at the Other Berths in Hillsborough County</u>

H.4. In order to ensure compliance with Specific Condition No. H.1., H.2., and H.7., the following restrictions and limitations shall apply during any twelve consecutive month period: [Rules 62-296.711(2)(a) and 62-4.070(3), F.A.C.]

A) The maximum transfer rate shall not exceed:

Transfer Point Description	Maximum Average Transfer Rate
Ship Loading	500 tons/hour
Ship Unloading using Hopper (ship to hopper to truck)	500 tons/hour

B) The permittee shall not cause, permit, or allow any visible emissions (five percent opacity) from any emissions point.

H.5. In order to demonstrate compliance with Specific Condition No. H.1., H.2., and H.7., the following restrictions and limitations shall apply: [Rule 62-4.070(3), F.A.C. and Permit No. 0570024-016-AC]

A) The hopper shall be equipped with wind shields and water spray system and the material drop height minimized to the extent practicable. In no case shall the drop height be greater than 5 feet or above the top of the wind shields.
B) Water or a dust suppressant shall be applied as needed to control visible emissions from the shiphold, receiving hopper, truck loading, or stockpiling. Regardless of whether or not water is used, the spray nozzles shall be set up and shall be in an operational mode during the material transfer process.
C) The permittee may operate a maximum of three cranes at a maximum of three berths simultaneously.
D) The hours of operation are not restricted.
E) No blowers shall be used in the vessel holds.
F) The number of transfer points shall not exceed eight.
G) The unbound (sorbed) moisture percent in petroleum coke shall not be less than 4%.
H) Material shall not be stockpiled at the dock for more than 24 hours.

Conditions Specific to Operation at Kinder Morgan's Tampaplex Berth and Other Berths in Hillsborough County

H.6. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]

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

H.7. The permittee shall not cause, permit, or allow any visible emissions (five percent opacity) from any emission point or operation. [Rule 62-296.711(2)(a), F.A.C.]

Test Methods and Procedures
{*Permitting Note: The attached Table 2, 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. 8. Test Methods. Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rules 62-297.310(7)(a)4. and 62-297.401, F.A.C.]

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

H.10. Annual Compliance Tests Required. Test all the emission units for visible emissions at the Tampaplex site, upon the first instance of handling a new material, and annually, once per federal fiscal year (October 1 – September 30). Each VE observation shall be made at the point of highest opacity from each transfer point. Submit two copies of the test data to the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of such testing. Testing procedures shall be consistent with the requirements of Rule 62-297.310, F.A.C. [Rules 62-297.310(7)(a)4., 62-297.310(8)(b), and 62-4.070(3), F.A.C.]
(Permitting Note: For the purposes of this Specific Condition, "new material" shall mean a material which has never been loaded out and VE tested while being handled through EU 104 through 112.)

H.11. Annual Compliance Tests Required. Test the Stevedoring operation for opacity once per federal fiscal year (October 1 – September 30) while operating at each berth other than the Kinder Morgan Tampaplex berth. Compliance with Specific Condition Nos. H.4.B) and H.7. shall be demonstrated by testing the dustiest material handled during the previous twelve months. Submit two copies of the test data to the Air Management Division of the EPC within forty-five days of such testing. Testing procedures shall be consistent with the requirements of Rule 62-297, F.A.C. [Rules 62-297.310(7)(a)4., 62-297.310(8)(b), and 62-4.070(3), F.A.C.]

H.12. Testing of emissions shall be conducted with the source operating at capacity. Capacity is defined as 90-100% of the rated capacity listed in Specific Condition Nos. H.3.A) and H.4.A). If it is impracticable to test at capacity, then the source may be tested at less than capacity; in this case subsequent source operation is limited to 110% 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 fifteen days for purposes of additional compliance testing to regain the rated capacity in the permit, with prior notification to the EPC. Failure to submit the throughput rates, moisture content of the material as received, and actual operating conditions may invalidate the test. [Rules 62-4.070(3) and 62-297.310, F.A.C.]

H.13. Compliance with the emission limitations of Specific Condition Nos. H.4.B) and H.7. shall be determined using EPA Method 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C. The Method 9 test shall be at least 30 minutes in duration. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Rule 62-297, F.A.C. and 40 CFR 60, Appendix A. [Rules 62-297, 62-297.310(4)(a)2., and 62-296.711(3)(a) F.A.C.]

Recordkeeping and Reporting Requirements

Conditions Specific to the Operation at Kinder Morgan's Tampaplex Berth

H.14. The permittee shall perform the following observations and checks on the schedule specified below. The permittee shall perform any necessary maintenance work in order to keep the equipment in good working order to minimize fugitive particulate emissions. [Rules 62-296.700(6), 62-4.070(3) and 62-213.440(1)(b)2.b., F.A.C.]

A) Daily (when in operation)
   1) Inspect the water sprinkler system for proper operation, including, but not limited to, leaks and adequate wetness of material.

B) Each day of Hauling (when in operation)
   1) Inspect the unpaved areas to ensure they are adequately wet.
   2) Inspect the paved haul areas to ensure they are free of dust and debris.
   3) Inspect the truck wheel wash station for proper operation.

C) Each Marine Vessel Unloading Operation (when in operation)
   1) Record the maximum throughput rate in tons per hour for each marine vessel as measured by Belt Scale, BSC-01, or as determined by the Draft Survey and/or the Statement of Facts for each vessel.

D) Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to any local, state, or federal air pollution control agency upon request.

Conditions Specific to Operation at the Other Berths in Hillsborough County

H.15. The permittee shall perform the following observations and checks on the schedule specified. The permittee shall perform any necessary maintenance work in order to keep the equipment in good working order to minimize fugitive particulate emissions. [Rules 62-296.700(6), 62-4.070(3), and 62-213.440(1)(b)2.b., F.A.C.]

A) The hopper wind shields and water spray system shall be inspected prior to use. Maintenance or repairs shall be performed before the start of the operation. Its components shall be repaired or replaced as needed to ensure that the materials handled are moist or wetted to the extent necessary to maintain compliance with the opacity standards specified in Specific Condition Nos. H.4.B) and H.7.
B) Check to ensure the petroleum coke is sufficiently coated with a dust suppressant and/or water in order to meet the opacity standards specified in Specific Condition Nos. H.4.B) and H.7.
C) Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to any local, state, or federal air pollution control agency upon request.

Conditions Specific to Operation at Kinder Morgan's Tampaplex Berth and Other Berths in Hillsborough County

H.16. In order to ensure compliance with Specific Condition Nos. H.1., H.2., and H.4., the permittee shall maintain a recordkeeping system. The records shall be maintained onsite for five years and shall be made available to any local, state, or federal air pollution agency upon request. The records shall include, but not limited to, the following: [Rule 62-4.070(3), F.A.C. and 62-213.440(1)(b)2.b., F.A.C.]

A) Operation at Kinder Morgan's Tampaplex Berth
   I. Material Handling Records, which may be compiled from the Draft Survey and/or the Statement of Facts completed for each vessel:
      1) Day, Month, Year
      2) Amount, Group, and Type of each material received (tons)
      3) Amount Group, and Type of each material shipped offsite (tons)
      4) Monthly total of 2) and 3) above
      5) Rolling twelve month total of 4) above
      6) Monthly and twelve month rolling summary of particulate matter emissions from material handling. When calculating particulate matter emissions, the emission factors and control efficiencies listed in H.2.B) shall be used.
      7) Records as required by Specific Condition No. H.14.

B) When Operating at Other Berths
   I. Material Handling Records, which may be compiled from the Draft Survey and/or the Statement of Facts completed for each vessel:
      1) Day, Month, Year
      2) Berth No. or Location
      3) Amount, Group, and Type of each material received (tons)
      4) Amount Group, and Type of each material shipped offsite (tons)
      5) Monthly total of 3) and 4) above
      6) Rolling twelve month total of 5) above
      7) Monthly and twelve month rolling summary of particulate matter emissions from material handling. When calculating particulate matter emissions, the emission factors and control efficiencies listed in H.2.B) shall be used.
      8) Records as required by Specific Condition No. H.14.

H.17. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

SECTION IV. APPENDICES.

The Following Appendices Are Enforceable Parts of This Permit:

Appendix A, Glossary.
Appendix CAM, Compliance Assurance Monitoring Plan.
Appendix I, List of Insignificant Emissions Units and/or Activities.
Appendix ICE, Requirements for Internal Combustion Engines.
Appendix RR, Facility-wide Reporting Requirements.
Appendix TR, Facility-wide Testing Requirements.
Appendix TV, Title V General Conditions.
Appendix ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
Appendix O&M – Operation and Maintenance

REFERENCED ATTACHMENTS.

The Following Attachments Are Included for Applicant Convenience:

Table H, Permit History.
Table 1, Summary of Air Pollutant Standards and Terms.
Table 2, Compliance Requirements.