

FINAL DETERMINATION

1. PERMITTEE

Titan America, LLC
4219 Maritime Blvd.
Tampa, FL 33605

2. PERMITTING AUTHORITY

Environmental Protection Commission of Hillsborough County (EPCHC)
3629 Queen Palm Dr.
Tampa, FL 33619

3. PROJECT

Air Permit No. 0571290-017-AC

Minor Air Construction Permit

This permit modifies the pneumatic ship unloading operation, the aggregate handling operation, and the ship loading operation. The changes include authorizing the facility to handle bauxite; limiting the fuel usage of EUs 009 and 010; increasing the aggregate handling throughput; authorizing additional equipment associated with the aggregate handling operation; and exempting twelve diesel fuel fired engines.

4. NOTICE AND PUBLICATION

The EPCHC distributed a draft minor air construction permit package on November 16, 2017. The applicant published the Public Notice in the Tampa Bay Business Journal on November 24, 2017. The EPCHC received the proof of publication on November 28, 2017. No requests for administrative hearings or requests for extensions of time to file a petition for administrative hearing were received.

5. COMMENTS

No comments on the Draft Permit were received from the public or the applicant.

6. CONCLUSION

The final action of the EPCHC is to issue the permit as drafted.

COMMISSION

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PERMITTEE

Titan America, LLC
4219 Maritime Blvd.
Tampa, FL 33605

Air Permit No. 0571290-017-AC
Permit Expires: December 1, 2018
Minor Air Construction Permit

Authorized Representative:

William Kissel, Senior Environmental Manager

Titan America, LLC

Material Handling Modifications

PROJECT

This is the final air construction permit, which authorizes the facility to pneumatically handle bauxite; increases the annual throughput of the aggregate handling operation; authorizes construction of an aggregate wash station; and exempts a total of twelve diesel fuel fired engines. The proposed work will be conducted at the existing Titan America, LLC facility, which is a bulk material handling facility categorized under Standard Industrial Classification Code No. 5032 – Brick, Stone, and Related Construction Materials. The existing facility is located in Hillsborough County at 4219 Maritime Blvd., Tampa, FL 33605. The UTM coordinates of the existing facility are Zone 17, 359.94 km East, and 3087.81 km North.

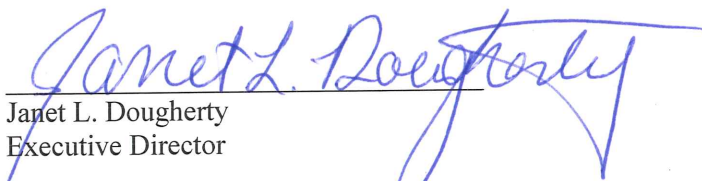
Statement of Basis

This air pollution construction permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit. This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality

Upon issuance of this final permit, any party to this permitting decision (order) has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the Legal Department of the EPC at 3629 Queen Palm Drive, Tampa, Florida 33619, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within 30 days after this order is filed with the clerk of the Department.

Executed in Tampa, Florida.

ENVIRONMENTAL PROTECTION
COMMISSION OF HILLSBOROUGH COUNTY


Janet L. Dougherty
Executive Director

Environmental Excellence in a Changing World

Roger P. Stewart Center

3629 Queen Palm Drive, Tampa, FL 33619 - (813) 627-2600 - www.epchc.org

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FINAL PERMIT


CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Air Permit package was sent by electronic mail, or a link to these documents made available electronically on a publicly accessible server, with received receipt requested before the close of business on the date indicated below to the following persons.

William Kissel, Titan America, LLC - wkissel@titanamerica.com

Max Lee, P.E. – Koogler & Associates, Inc. mlee@kooglerassociates.com

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

 12/12/2017
Clerk Date

SECTION 1. GENERAL INFORMATION

FACILITY DESCRIPTION

Titan America, LLC is a bulk material handling facility. The bulk materials are received by ship, truck, and railcar. When receiving material by ship, ships are unloaded using a barge mounted ship unloading system which consists of a vertical screw auger, a screw conveyor, a surge vessel, and a pneumatic transfer operation system with four charging vessels.

The vertical screw auger is used to remove the materials from the shiphold. At the top of the vertical screw auger, the materials are transferred to a horizontal screw conveyor and then into the surge vessel. The screw auger and screw conveyor have a maximum materials unloading capacity of 440 tons per hour (TPH). From the surge vessel, the materials are pneumatically loaded into one of four charging vessels.

Compressed air is used to pressurize the charging vessels. Once pressurized, the materials are pneumatically transferred to the onshore filter/receiver which directs material to the four main silos and/or the two interstitial silos. The surge vessel(s) to the silo(s) transfer operation has a maximum transfer rate of 881 tons/hour.

Particulate matter (PM) emissions from the loading of the surge vessel by the screw conveyor system and from the pneumatic loading of the charging vessels are controlled using two 1,400 DSCFM DCE, Model No. DLM V20/10F5, jet pulse baghouses. If the material is directed to the onshore filter/receiver, PM emissions are controlled by the 25,000 DSCFM Schmidt, Model No. 398FR12(6), jet pulse baghouse. If the material is directed to the two interstitial silos, PM emissions are controlled by each silo's 1,790 DSCFM Schmidt Airtech, Model No. 48DS8FM, jet pulse baghouse.

The ship unloading system is powered by the 575 HP Caterpillar, Model No. 3306, diesel fuel fired electric generator (EU No. 009) and by the 1,280 HP Caterpillar, Model No. 3512, diesel fuel fired electric generator (EU No. 010). The compressed air for the charging vessels is provided by six (6) 540 HP Sullair or equivalent air compressors. In addition, a 266 HP Cummins, QSB 6.7, or equivalent air compressor is used to power a dry fogging system, which is used as needed when unloading bulk materials. While the screw auger is in use, the ship's hold is open to the atmosphere. The fogging system will push fog across the open ship hold to control visible emissions as needed while unloading.

When receiving material by truck and railcar, bulk materials are pneumatically transferred using three railcar and truck unloading lines. One unloading line transfers material to either the filter/receiver or directly to the two interstitial silos. The remaining two unloading lines transfer the material into the filter/receiver. The filter/receiver then directs the material to the four main silos and/or the two interstitial silos. The unloading lines can be used simultaneously and are located on the south side of Silo No. 4.

Material from the railcars and trucks is pneumatically unloaded into the silo(s) using air from the railcar and truck's onboard pumps; using a 75 HP Deutz engine; and/or using electrical powered compressors located in the silo structure.

When loading material out by ship, the facility operates a ship loading operation at Hooker's Point Berth 219 or any other berth controlled by the Tampa Port Authority. Ships can be loaded by using either of three different types of loading methods. Bulk materials are loaded directly into ships from the facility's silos, which is referred to as direct exporting and is described further below. Also, materials can be loaded into ships by using trucks and/or railcars that are loaded onsite from the silos. A third loading alternative involves loading a ship by trucks that bring materials from other facilities. A maximum of twelve trucks and/or railcars at a time can load materials directly into a ship using the trucks and/or railcars' onboard pneumatic pumps.

The direct exporting involves transferring materials from the storage silos, via gravity feed, to the railcar loadout spout and then into an enclosed receiving hopper. The hopper serves as a funnel to transition the materials from

SECTION 1. GENERAL INFORMATION

the loadout spout to the pump. An electricity powered pump and three electricity powered air compressors pneumatically transfer the materials to the 12" ship loading lines through a flexible hose and a pipe extension. The materials are then pneumatically transferred into a ship through the 12" ship loading lines. The Truck and Railcar Loading Station No. 2 baghouse controls particulate matter emissions from this direct export operation.

Particulate matter emissions from the ship during the ship loading activities are controlled by either a portable baghouse, which may be rented from a third party company as needed, or by a shipboard baghouse with a maximum flowrate of 48,179 DSCFM. Either the portable baghouse or the shipboard baghouse shall be used during ship loading. The portable baghouse is powered by a 99 HP or less diesel fired engine. The make and model number of the portable and shipboard baghouses and the engine may change as long as the specifications in the permit are met.

The facility operations also include an aggregate handling operation, which involves receiving, storing and loading out aggregate materials. Aggregate (identified as recycled concrete, limestone, granite, and mineral aggregate deposits, which includes but is not limited to sand, gravel, and stone) is received from a ship off-loading conveyor or ship clamshell and dropped into four large dockside hoppers, each with an approximate capacity of 100 cubic yards. A single truck is placed directly under the hopper and the material is gravity-fed into the truck bed as needed. Once a truck is full, the hopper gate is closed and another truck replaces the previous and the process continues using multiple trucks until the ship is unloaded.

The loaded trucks transport the material to the south portion of the site (Parcel B) and drop the product through a grate and onto a wide belt conveying system known as a RazerTail. The material is then transferred from the RazerTail to a radial stacker, which drops the material onto a storage pile or conveys the material to the hopper of the new wash station.

The radial stacker can pivot in an arc from its receiving point so the storage pile can be shaped and sized as needed. Front-end loaders recover the product from the piles and load the material into trucks or railcars for shipment off-site or will transfer the material to the hopper of the new wash station. If the material is washed, material from the washer is conveyed directly into a truck for shipment off-site. A 418 HP, MTU, Model No. 6R1600G7OS, diesel fuel fired engine powers the aggregate conveying systems. Alternatively, the conveying system can be powered by electricity provided by TECO.

The facility may operate a 64 HP engine and up to four (4) 300 HP engines to support various operations at the facility. These engines, the six (6) 540 HP engines, and the 266 HP engine have been determined to be exempt per Rule 62-210.300(3)(a)35., F.A.C. provided that the combined fuel usage of all exempt engines does not exceed 64,000 gallons/year and each engine meets, at a minimum, the Tier 3 emissions limits specified in 40 CFR 89.112. In order to demonstrate compliance with this exemption, the facility will maintain fuel usage records and make the records available upon request.

PROPOSED PROJECT

As requested by the permittee, this project modifies the pneumatic ship unloading operation; the aggregate handling operation; and the ship loading operation as follows:

- Authorize the facility to handle bauxite through the pneumatic handling system.
- Replace the limit on the hours of operation for EU Nos. 009 (575 HP engine) and EU 010 (1,280 HP engine) with a limit on the fuel usage for the engines.
- Remove the second RazerTail conveyor and second radial stacker associated with the aggregate material handling operation.
- Increase the aggregate throughput from 1,200,000 tons/year to 2,500,000 tons/year.
- Authorize the use of three additional aggregate ship unloading hoppers.

SECTION 1. GENERAL INFORMATION

- Construct an aggregate wash station.
- Clarify that the portable engine associated with EU No. 021 (Ship Loading Baghouse) is not subject to 40 CFR 60 Subpart IIII or 40 CFR 63 Subpart ZZZZ because it meets the definition of a non-road engine as specified under these subparts. Therefore, it is exempt from these federal regulations.
- Exempt six (6) 540 HP diesel fuel fired air compressors (former EU No. 027), one (1) 266 HP diesel fuel fired air compressor (former EU No. 028), one (1) 64 HP diesel fuel fired engine, and four (4) 300 HP diesel fuel fired engines per Rule 62-210.300(3)(a)35., F.A.C. Based on the permit application, the fuel oil usage of all exempt engines at the facility will not exceed 64,000 gallons per twelve consecutive month period.

This project will modify the following emissions units.

EU No.	Emission Unit Description
001	Filter/Receiver
006	Interstitial Silo No. 5
007	Interstitial Silo No. 6
009	One 575 HP Diesel Fuel Fired Generator
010	One 1,280 HP Diesel Fuel Fired Generator
014	Aggregate Material Handling
	Emission Point (EP) 1: Ship Conveyor to Dockside Hopper
	EP 2 - Dockside Hopper to Truck
	EP 3 - Truck to RazerTail Conveyor
	EP 4 - RazerTail Conveyor 1 to Radial Stacker
	EP 5 - Radial Stacker 1 to Storage Pile or to Wash Station
	EP 8 - Pile to Truck or to Wash Station
021	Ship Loading

FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility does not operate units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is not a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

- FW1.** When used in this permit the term Concrete Raw Materials is defined as Portland Cement Types I, II, III, IV, V, white cement, masonry cement, flyash, slag cement, natural and synthetic gypsum, lime, cement kiln dust, natural pozzolana, and artificially produced pozzolana materials. The facility may also handle bauxite through the pneumatic concrete raw materials handling system and the pneumatic ship loading system. [Rule 62-4.070(3), F.A.C. and Permit No. 0571209-009-AC]
- FW2.** Permitting Authority: The permitting authority for this project is the Environmental Protection Commission of Hillsborough County. The mailing address is 3629 Queen Palm Dr., Tampa, Florida 33619. All documents related to applications for permits to operate an emissions unit shall be submitted to the Environmental Protection Commission of Hillsborough County.
- FW3.** Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Environmental Protection Commission of Hillsborough County at: 3629 Queen Palm Dr., Tampa, Florida 33619.
- FW4.** Appendices: The following Appendices are attached as a part of this permit: Appendix A (Citation Formats and Glossary of Common Terms); Appendix B (General Conditions); Appendix C (Common Conditions); and Appendix D (Common Testing Requirements).
- FW5.** Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
- FW6.** New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the EPCHC may require the permittee to conform to new or additional conditions. The EPCHC shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the EPCHC may grant additional time. [Rule 62-4.080, F.A.C.]
- FW7.** Modifications: No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
- FW8.** As requested by the permittee, in order to limit the potential to emit for Hazardous Air Pollutants (HAP), the HAP, as defined in Rule 62-210.200, F.A.C., emissions shall be less than 10 tons for any individual HAP and less than 25 tons for any combination of HAPs in any 12 consecutive month period. [Rules 62-212.300, 62-210.200, and 62-4.070(3), F.A.C. and Permit No. 0571209-009-AC]
- FW9.** Annual Operating Report (AOR): The information required by the Annual Operating Report for Air Pollutant Emitting Facility (DEP Form No. 62-210.900(5)) shall be submitted by April 1 of each year, for the previous calendar year, to the Environmental Protection Commission of Hillsborough County. All synthetic non-Title V sources shall submit a completed DEP Form 62-210.900(5) unless the annual operating report is submitted using the DEP's electronic annual operating report software. Emissions shall be computed in accordance with the provisions of subsection 62-210.370(2), F.A.C. [Rule 62-210.370(3), F.A.C.]
- {Permitting Note: Resources to help you complete your AOR are available on the electronic AOR (EAOR) website at: <http://www.dep.state.fl.us/air/emission/eaor>. If you have questions or need assistance after reviewing the information posted on the EAOR website, please contact the Department by phone at (850) 717-9000 or email at eaor@dep.state.fl.us.}*
- FW10.** All applicable rules of the Environmental Protection Commission of Hillsborough County including design discharge limitations specified in the application shall be adhered to. The permit holder may also need

SECTION 2. ADMINISTRATIVE REQUIREMENTS

to comply with county, municipal, federal, or other state regulations prior to construction. [Rule 62-4.070(7), F.A.C.]

FW11. 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(8)(c), F.A.C.]

FW12. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Rule 62-296.320, F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing, and handling. Reasonable precautions shall include, but are not limited to, the following: [Rule 62-296.320(4)(c), F.A.C.]

- A) Use covers or wind shields at the shiphold, as necessary, to meet the opacity standard.
- B) Attend to major operational upsets promptly and effectively. Stop operation, if necessary.
- C) Curtail operations during high wind conditions, if necessary.
- D) On days when the equipment is in use, inspect the screw auger and screw conveyor for visible emissions daily. Record any problems and actions taken.
- E) Maintain trafficked areas clean. Post a sign to limit vehicle speeds to 10 miles per hour.
- F) Exercise good housekeeping practices at all times.
- G) Paving or maintenance of roads, parking areas, and yards.
- H) Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, and open stock piles, as necessary.
- I) Removal of particulate matter from roads and other paved areas under control of the owner or operator to prevent re-entrainment and from building or work areas to prevent particulates from becoming airborne, as necessary.
- J) Each conveyor transfer point shall have enclosures to ensure compliance with the 5% opacity standard.

FW13. The permittee shall not cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor. [Rule 62-296.320(2), F.A.C.]

FW14. If the permittee wishes to transfer this permit to another owner, an "Application for Transfer of Air Permit" (DEP Form 62-210.900(7)) shall be submitted, in duplicate, to the Environmental Protection Commission of Hillsborough County within 30 days after the sale or legal transfer of the permitted facility. [Rule 62-4.120, F.A.C.]

FW15. The use of property, facilities, equipment, processes, products, or compounds, or the commission of paint overspraying or any other act, that causes or materially contributes to a public nuisance is prohibited, pursuant to the Hillsborough County Environmental Protection Act, Section 16, Chapter 84-446, Laws of Florida, as Amended.

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU Nos. 001, 006, and 007 – Filter/Receiver and Interstitial Silo

This section of the permit addresses the following emissions units.

EU No.	Description
001	Filter/Receiver
006	Interstitial Silo No. 5
007	Interstitial Silo No. 6

PERFORMANCE RESTRICTIONS

A.1. Permitted Capacity: The following limitations shall apply: [Rule 62-4.070(3), F.A.C. and Permit No. 0571290-013-AC]

- A) The maximum throughput of concrete raw materials shall not exceed 750,000 tons per any twelve consecutive month period
- B) The maximum combined unloading rate from the railcar and the truck into the silos shall not exceed 200 tons/hour.
- C) All three railcar and truck unloading lines may be operated simultaneously.

A.2. Emission Unit Nos. 001, 006, and 007 are authorized to operate continuously (8,760 hours/year). [Rules 62-4.070(3) and 62-210.200(PTE), F.A.C. and Permit No. 0571290-009-AC]

EMISSIONS STANDARDS

A.3. The maximum potential and allowable particulate matter emissions shall not exceed the following per any twelve consecutive month period: [Rule 62-296.711(2), F.A.C. and Permit No. 0571290-009-AC]

<u>EU No. and Description</u>	<u>Control Equipment</u>	<u>Control Equipment Model No.</u>	<u>DSCFM</u>	<u>Pollutant</u>	<u>Potential Emissions (Tons/yr)</u>	<u>Allowable Emissions</u>
001 - Filter/Receiver	F.L. Schmidt Jet Pulse Baghouse	398FR12(6)	25,000	PM	28.2	0.03 grains/dscf
006 - Interstitial Silo No. 5	F.L. Schmidt Airtech Jet Pulse Baghouse	48DS8FM	1790	PM	2.0	0.03 grains/dscf
007 - Interstitial Silo No. 6	F.L. Schmidt Airtech Jet Pulse Baghouse	48DS8FM	1790	PM	2.0	0.03 grains/dscf

A.4. The following restrictions and limitations shall apply to ensure compliance with Specific Condition No. A.5.: [Rule 62-4.070(3), F.A.C., and Permit No. 0571290-009-AC]

- A) Open holds on the delivery vessel shall be tarped as necessary to ensure 5% opacity or less.
- B) Front-end loaders, bulldozers, etc. may be used in any open shiphold to help collect the final twelve inches of concrete raw materials which remains at the bottom of the shiphold. Manual sweeping may be used as well, but no blowers are allowed.
- C) During high wind conditions, all of the shipholds filled with concrete raw materials shall be completely enclosed with a tarp or a permanent hatch

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU Nos. 001, 006, and 007 – Filter/Receiver and Interstitial Silo

A.5. The permittee shall not cause, permit, or allow any visible emissions (5% opacity) from Emission Unit Nos. 001, 006, and 007. [Rule 62-296.711(2), F.A.C. and Permit No. 0571290-009-AC]

TESTING REQUIREMENTS

A.6. Initial Compliance Test: Each emissions unit shall be tested to demonstrate compliance with the emissions standards for opacity (Specific Condition No. A.5.) when handling bauxite for the first time. [Rules 62-4.070(3) and 62-297.310(8)(b)1, F.A.C.]

A.7. Annual Compliance Tests: In addition to the testing required in Specific Condition No. A.6., during each calendar year (January 1st to December 31st), each emissions unit shall be tested to demonstrate compliance with the emissions standards for opacity (Specific Condition No. A.5.). [Rules 62-4.070(3) and 62-297.310(8)(a)1, F.A.C.]

A.8. Testing of emissions shall be conducted while the engine is operating at capacity. Capacity is defined as 90-100% of the rated capacity of 881 TPH for the ship unloading transfer rate into the filter/receiver and 440 TPH for the ship unloading transfer rate into each interstitial silo; and a gauge pressure of 12 psi while unloading trucks and/or railcars. If it is impracticable to test at the testing capacity, an emissions unit may be tested at less than the testing capacity. If an emissions unit is tested at less than the testing capacity, another emissions test shall be conducted and completed no later than 60 days after the emissions unit operation exceeds 110% of the capacity at which its most recent emissions test was conducted. [Rules 62-4.070(3) and 62-297.310(3), F.A.C.]

A.9. Test Requirements: At least 15 days prior to the date on which each required emissions test is to begin, the owner or operator shall notify the EPCHC, unless shorter notice is agreed to by the EPCHC. The notification shall include the date, time, place of each such test, Facility ID Number, Emission Unit ID Number(s) and description(s), Emission Point Number(s) and description(s), test method(s), pollutant(s) to be tested, along with the name and telephone number of the person who will be responsible for conducting such test(s) for the owner or operator. If a scheduled emissions test needs to be re-scheduled, the owner or operator shall submit to the appropriate air compliance program a revised notification at least seven days prior to the re-scheduled emissions test date or arrange a re-scheduled test date with the appropriate air compliance program by mutual agreement. In addition, tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(9), F.A.C.]

A.10. Test Methods: Required tests shall be performed in accordance with the following reference methods.

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method is described in 40 CFR 60 and is 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. [40 CFR 60.4244(a); Rule 62-204.800, F.A.C.; and Appendix A of 40 CFR 60]

RECORDS AND REPORTS

A.11. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. For each test run, the report shall also indicate the following: [Rule 62-297.310(10), F.A.C.]

- A) The emission unit number
- B) The unloading rate
- C) The baghouse pressure drop
- D) The unloading pressure gauge (for truck/railcar unloading)

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU Nos. 001, 006, and 007 – Filter/Receiver and Interstitial Silso

A.12. In order to demonstrate compliance with Specific Condition Nos. A.1. and A.2., the permittee shall maintain a monthly recordkeeping system for the most recent three year period. However, the facility should maintain daily records and make them available upon request. 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: [Rules 62-4.070(3) and 62-4.160(14)(b), F.A.C.]

- A) Month, Year
- B) Type of unloading operation (i.e., ship unloading or railcar/truck unloading)
- C) Amount and type of material unloaded (tons)
- D) Hours of operation of each Emission Unit
- E) Twelve month rolling total of C) and D) above

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

B. EU Nos. 009 and 010 – 575 and 1,280 HP Generators

This section of the permit addresses the following emissions units.

EU No.	Description
009	One 575 HP Generator
010	One 1,280 HP Generator

PERFORMANCE RESTRICTIONS

- B.1. Authorized Fuel:** EU Nos. 009 and 010 shall be fired on diesel fuel only. [Rules 62-4.070(3) and 62-210.200(Potential-to-Emit), F.A.C.; and Permit No. 0571290-015-AC]
- B.2. Authorized Fuel:** The combined fuel usage for EU Nos. 009 and 010 shall not exceed 200,000 gallons of diesel fuel per twelve consecutive month period. [Rules 62-4.070(3) and 62-210.200(Potential-to-Emit), F.A.C.; and Permit Application Received October 17, 2017]
- B.3. Hours of Operation:** The hours of operation are not restricted. [Rule 62-4.070(3), F.A.C. and Permit No. 0571459-001-AC]

EMISSIONS STANDARDS

- B.4.** Visible emissions from the exhaust of each engine and each air compressor shall not exceed 20% opacity. [Rule 62-296.320(4)(b)1, F.A.C. and Chapter 1-3.52.1., Rules of the EPC]

TESTING REQUIREMENTS

- B.5. Annual Compliance Tests:** During each calendar year (January 1st to December 31st), each emissions unit shall be tested to demonstrate compliance with the emissions standards for opacity (Specific Condition No. B.4.). [Rules 62-4.070(3) and 62-297.310(8)(a)1, F.A.C.]
- B.6.** Testing of emissions shall be conducted while the engine is operating at capacity. Capacity is defined as at least 90% of the horsepower of each engine. If it is impracticable to test at the testing capacity, an emissions unit may be tested at less than the testing capacity. If an emissions unit is tested at less than the testing capacity, another emissions test shall be conducted and completed no later than 60 days after the emissions unit operation exceeds 110% of the capacity at which its most recent emissions test was conducted. [Rules 62-4.070(3) and 62-297.310(3), F.A.C.]
- B.7. Test Requirements:** At least 15 days prior to the date on which each required emissions test is to begin, the owner or operator shall notify the EPCHC, unless shorter notice is agreed to by the EPCHC. The notification shall include the date, time, place of each such test, Facility ID Number, Emission Unit ID Number(s) and description(s), Emission Point Number(s) and description(s), test method(s), pollutant(s) to be tested, along with the name and telephone number of the person who will be responsible for conducting such test(s) for the owner or operator. If a scheduled emissions test needs to be re-scheduled, the owner or operator shall submit to the appropriate air compliance program a revised notification at least seven days prior to the re-scheduled emissions test date or arrange a re-scheduled test date with the appropriate air compliance program by mutual agreement. In addition, tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(9), F.A.C.]
- B.8. Test Methods:** Required tests shall be performed in accordance with the following reference methods.

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

B. EU Nos. 009 and 010 – 575 and 1,280 HP Generators

The above method is described in 40 CFR 60 and is 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. [40 CFR 60.4244(a); Rule 62-204.800, F.A.C.; and Appendix A of 40 CFR 60]

MONITORING REQUIREMENTS

B.9. In order to demonstrate that EU Nos. 009 and 010 meet the definition of a nonroad engine and are exempt from 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ, the permittee shall maintain records which document that each engine is not located at any single location for more than 12 consecutive months, through operating logs that note every time each engine is relocated. These records shall be made available to the Environmental Protection Commission of Hillsborough County, state or federal air pollution agency upon request and shall be maintained for the most recent five year period. [40 CFR 60.4200, 40 CFR 63.6585, 40 CFR 1068.30, Rule 62-4.070(3), F.A.C., Permit 0571290-015-AC, and EPA determination dated 12/5/2008 (Control No. M090038)]

RECORDS AND REPORTS

B.10. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. For each test run, the report shall also indicate the following: [Rule 62-297.310(10), F.A.C.]

- A) The emission unit number
- B) The fuel used during the test

B.11. In order to comply with Specific Condition No. B.2, the permittee shall maintain monthly records of operations for the most recent three 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) and 62-4.160(14), F.A.C.]

- A) Month, Year
- B) The amount and type of fuel used by each engine (gallons)
- C) Rolling consecutive 12-month totals of B) above
- D) Records as required by Specific Condition No. B.9

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

C. EU No. 014 – Aggregate Material Handling

This section of the permit addresses the following emissions units.

EU No.	Description
014	Aggregate Material Handling

- C.1. Permitted Capacity:** The following restrictions and limitations shall apply: [Rule 62-4.070(3), F.A.C., Permit No. 0571290-009-AC, and Permit Application received October 17, 2017]
- A) Only recycled concrete, limestone, granite, and mineral aggregate deposits, which includes but is not limited to sand, gravel, and stone shall be handled through the aggregate material handling operation.
 - B) The combined throughput of the materials in A) above received by ship for the aggregate handling operation shall not exceed 2,500,000 tons per any consecutive 12-month period.
 - C) The maximum ship unloading rate shall not exceed 2,500 tons/hr.
 - D) The maximum truck loading and railcar loading rate shall not exceed 600 tons/hr.
- C.2.** The following restrictions and limitations shall apply: [Rule 62-4.070(3), F.A.C. and Permit No. 0571290-009-AC]
- A) Maintain a water spray system(s) on all aggregate material transfer points and in the aggregate material storage areas to adequately wet the material as necessary. The water spray system shall be properly operated and maintained to ensure the material is adequately wet, as needed, during the transfer operations.
 - B) The water spray system shall be capable of reaching and wetting all the storage piles to adequately wet the material as needed to address particulate matter emissions from material transfer or windblown actions.
 - C) Test each shipment of aggregate on-site as received from ships to ensure that the moisture content of the material is a minimum of 2.7%. If it is less than 2.7%, water sprays must be placed in operation at the unloading hopper, and at all other transfer points as necessary, until the moisture content meets the minimum standard. The water sprays shall remain in operation as necessary to maintain the moisture content.

EMISSIONS STANDARDS

- C.3.** The permittee shall not cause, permit, or allow any visible emissions (five percent opacity) from any aggregate handling activity, emission point, or any transfer point at the facility, including but not limited to, the points listed below: [Rule 62-296.711(2)(a), F.A.C., Chapter 1-3.52(2), Rules of the EPC, and Permit No. 0571290-007-AC]
- A) Ship Hold Conveyor Belts
 - B) Material Drops to the Hopper, RazerTail Receiving Grate, and Storage Piles
 - C) Material Transfer Points on the Conveying Systems
 - D) Front End Loader Transfer Operations
 - E) Truck and Railcar Loading Operations

TESTING REQUIREMENTS

- C.4. Annual Compliance Tests:** During each calendar year (January 1st to December 31st), each emission point associated with EU 014 shall be tested to demonstrate compliance with the emissions standards for opacity (Specific Condition No. C.3.). [Rules 62-4.070(3) and 62-297.310(8)(a)1, F.A.C.]
- C.5.** Testing of emissions shall be conducted while the engine is operating at capacity. Capacity is defined as 90-100% of rated capacities of 2,500 tons/hour for the ship unloading and conveyor transfer rates and 600 tons/hour for the truck and/or railcar loading rate. If it is impracticable to test at the testing capacity, an emissions unit may be tested at less than the testing capacity. If an emissions unit is tested at less than the

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

C. EU No. 014 – Aggregate Material Handling

testing capacity, another emissions test shall be conducted and completed no later than 60 days after the emissions unit operation exceeds 110% of the capacity at which its most recent emissions test was conducted. [Rules 62-4.070(3) and 62-297.310(3), F.A.C.]

C.6. Test Requirements: At least 15 days prior to the date on which each required emissions test is to begin, the owner or operator shall notify the EPCHC, unless shorter notice is agreed to by the EPCHC. The notification shall include the date, time, place of each such test, Facility ID Number, Emission Unit ID Number(s) and description(s), Emission Point Number(s) and description(s), test method(s), pollutant(s) to be tested, along with the name and telephone number of the person who will be responsible for conducting such test(s) for the owner or operator. If a scheduled emissions test needs to be re-scheduled, the owner or operator shall submit to the appropriate air compliance program a revised notification at least seven days prior to the re-scheduled emissions test date or arrange a re-scheduled test date with the appropriate air compliance program by mutual agreement. In addition, tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(9), F.A.C.]

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

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method is described in 40 CFR 60 and is 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. [40 CFR 60.4244(a); Rule 62-204.800, F.A.C.; and Appendix A of 40 CFR 60]

RECORDS AND REPORTS

C.8. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. For each test run, the report shall also indicate the following: [Rule 62-297.310(10), F.A.C.]

- A) The emission unit and emission point number
- B) The material handled during the test
- C) The hourly unloading or loading rate, as applicable
- D) Information on whether water sprays were in operation during the test

C.9. In order to ensure compliance with Specific Condition Nos. C.1. and C.2., the permittee shall maintain a recordkeeping system as detailed below. The facility should also maintain daily records and make them available upon request to document aggregate handling operations performed on each date. The records shall be maintained onsite for three years and shall be made available upon request to any local, state, or federal air pollution agency upon request. The records shall include, but are not limited to, the following: [Rules 62-4.070(3) and 62-4.160(14)b), F.A.C.]

- A) Day, Month, Year
- B) Amount and type of material received (tons)
- C) Amount and type of material loaded into trucks or railcars (tons)
- D) Rolling 12-month total of B) and C) above
- E) Records of moisture content testing on each aggregate shipment received from ships as required by Specific Condition No. C.2.

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

D. EU No. 021 – Ship Loading

This section of the permit addresses the following emissions units.

EU No.	Description
021	Ship Loading

PERFORMANCE RESTRICTIONS

- D.1. Permitted Capacity:** The following restrictions and limitations shall apply: [Rule 62-4.070(3), F.A.C. and Permit No. 0571290-004-AC]
- A) Only concrete raw materials and bauxite shall be pneumatically loaded into ships.
 - B) Ships shall be loaded by tanker trucks and/or railcars.
 - C) The maximum concrete raw material transfer rate into the ship shall not exceed 300 tons/hour.
 - D) The maximum concrete raw material throughput loaded into ships shall not exceed 750,000 tons per twelve consecutive month period.
 - E) The maximum combined number of trucks and railcars unloading into a ship at one time while using the trucks' and/or railcars' onboard pumps shall not exceed twelve.
 - F) The maximum hours of operation of the ship loading operation shall not exceed 2,500 hours per twelve consecutive month period.
 - G) Either the portable baghouse or the shipboard baghouse shall be in operation during all ship loading activities.
 - H) All dust laden gases shall be vented to the corresponding baghouse
- D.2. Hours of Operation/Restricted Operation:** The emission unit may operate a maximum of 2,500 hours per twelve consecutive month period. [Rules 62-4.070(3) and 62-210.200(PTE), F.A.C. and Permit No. 0571290-009-AC]
- D.3. In order to ensure compliance with Specific Condition No. D.4. and D.5., the baghouses and stationary compression ignition internal combustion engines (CI ICE) used during ship loading shall meet, at a minimum, the following specifications: [Rule 62-4.070(3), F.A.C. and Permit No. 0571290-009-AC]**
- A) Portable Baghouse Controlling Ship Loading
 - i. Type of Baghouse: Pulse Jet Cartridge Filter
 - ii. Pressure Drop: 0 - 17 inches of water
 - iii. Air to Cloth Ratio: 9.6:1 (maximum)
 - iv. A minimum 12-minute Method 9 observation is required for any dust collector in operation with a pressure differential reading greater than 6 inches water to confirm compliance with the visible emission standard.
 - v. The permittee shall maintain manufacturer's specifications on the portable baghouse used during each loading operation.
 - B) Shipboard Baghouse Controlling Ship Loading
 - i. The permittee shall maintain manufacturer's specifications on the shipboard baghouse used during each loading operation.
 - C) Stationary Compression Ignition Internal Combustion Engine (CI ICE) Powering the Portable Baghouse
 - i. Operate no more than one diesel fired CI ICE rated at 99 HP or less.
 - ii. In order to demonstrate that the engine meets the definition of a nonroad engine and is exempt from 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ, the permittee shall maintain records which document that the engine is not located at any single location for more than 12 consecutive months,

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

D. EU No. 021 – Ship Loading

through operating logs that note every time each engine is relocated. These records shall be made available to the Environmental Protection Commission of Hillsborough County, state or federal air pollution agency upon request and shall be maintained for the most recent five year period. [40 CFR 60.4200, 40 CFR 63.6585, 40 CFR 1068.30, Rule 62-4.070(3), F.A.C., and EPA determination dated 12/5/2008 (Control No. M090038)]

EMISSIONS STANDARDS

- D.4.** As requested by the permittee, in order to limit the potential to emit, the potential and allowable particulate matter emissions shall not exceed the following per any twelve consecutive month period: [Rule 62-296.711(2)(b), F.A.C. and Permit No. 0571290-004-AC]

Control Equipment	DSCFM	Pollutant	Potential Emissions (Tons/yr)	Allowable Emissions
Pulse Jet Baghouse	48,179	PM	15.5	0.03 gr/dscf

- D.5.** Visible emissions from each baghouse exhaust and the shiphold shall not exceed 5% opacity. [Rule 62-296.711(2)(a), F.A.C. and Permit No. 0571290-004-AC]

TESTING REQUIREMENTS

- D.6.** Initial Compliance Test: The portable baghouse, the shipboard baghouse, and the engine powering the portable baghouse shall be tested to demonstrate compliance with the emissions standards for opacity (Specific Condition No. D.5.) when handling bauxite for the first time. [Rules 62-4.070(3) and 62-297.310(8)(b)1, F.A.C., and CH. 1-3.52, Rules of the EPCHC]
- D.7.** Annual Compliance Tests: In addition to the testing required in Specific Condition No. D.6., during each calendar year (January 1st to December 31st), the portable baghouse, the shipboard baghouse, and the engine powering the portable baghouse shall be tested to demonstrate compliance with the emissions standards for opacity (Specific Condition No. D.5.). [Rules 62-4.070(3) and 62-297.310(8)(a)1, F.A.C., and CH. 1-3.52, Rules of the EPCHC]
- D.8.** Testing of emissions shall be conducted while the engine is operating at capacity. Capacity is defined as 90-100% of rated capacity of transferring 300 tons per hour of concrete raw materials into a ship. 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 15 fifteen days for purposes of additional compliance testing to regain the rated capacity in the permit, with prior notification to the EPC. [Rules 62-4.070(3) and 62-297.310(3), F.A.C.]
- D.9.** Test Requirements: At least 15 days prior to the date on which each required emissions test is to begin, the owner or operator shall notify the EPCHC, unless shorter notice is agreed to by the EPCHC. The notification shall include the date, time, place of each such test, Facility ID Number, Emission Unit ID Number(s) and description(s), Emission Point Number(s) and description(s), test method(s), pollutant(s) to be tested, along with the name and telephone number of the person who will be responsible for conducting such test(s) for the owner or operator. If a scheduled emissions test needs to be re-scheduled, the owner or operator shall submit to the appropriate air compliance program a revised notification at least seven days prior to the re-scheduled emissions test date or arrange a re-scheduled test date with the appropriate air compliance program by mutual agreement. In addition, tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(9), F.A.C.]
- D.10.** Test Methods: Required tests shall be performed in accordance with the following reference methods.

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

D. EU No. 021 – Ship Loading

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method is described in 40 CFR 60 and is 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. [40 CFR 60.4244(a); Rule 62-204.800, F.A.C.; and Appendix A of 40 CFR 60]

MONITORING REQUIREMENTS

D.11. Each baghouse shall have a device capable of monitoring the pressure differential across the baghouse. 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(6)(a) and (b), F.A.C. and Permit No. 0571209-009-AC]

RECORDS AND REPORTS

D.12. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. For each test run, the report shall also indicate the following: [Rule 62-297.310(10), F.A.C.]

- A) The emission unit number
- B) The baghouse type and model number
- C) The baghouse airflow rate
- D) The baghouse pressure drop
- E) The ship loading rates
- F) The horsepower of the portable engine
- G) The fuel type used in the portable engine

D.13. In order to demonstrate compliance with the limits established in Specific Condition Nos. D.1., D.2., and D.3., the permittee shall maintain a monthly recordkeeping system for the most recent three year period. However, the facility should maintain daily records and make them available upon request. The records shall be made available to the Environmental Protection Commission of Hillsborough County, state and federal officials upon request and shall include, but not limited to, the following: [Rules 62-4.070(3) and 62-4.160(14)(b), F.A.C. and Permit No. 0571290-009-AC]

- A) Month, Year
- B) Amount and type of material loaded into ships (tons)
- C) Hours of operation of each emission unit
- D) Rolling twelve month total of B) and C) above
- E) Type of baghouse used during ship loading (i.e., portable baghouse or shipboard baghouse)
- F) The make, model number, and air flowrate of the baghouse used during ship loading

