

MEMORANDUM

DATE: April 13, 2012
TO: Richard D. Garrity, Ph.D.
FROM: Jeff Sims **THRU:** Diana M. Lee, P.E.
SUBJECT: **DRAFT Construction Permit – Titan America, LLC**
Permit No. 0571290-007-AC

Attached is DRAFT Permit No. 0571290-007-AC for a modification of the aggregate receiving and handling operation at the concrete raw materials terminal and aggregate handling facility located at 4219 Maritime Blvd., Tampa, FL 33605. Titan America, LLC (Titan) is a Title V air emissions source located on the southern end of the Port of Tampa.

Titan is permitted to perform multiple operations from their site, primarily the pneumatic handling of concrete raw materials and the receiving, storage, and loadout of aggregate materials through hoppers, conveyors, trucks, etc. Concrete raw materials are received from ships, railcars, and trucks and pneumatically unloaded into one of six large storage silos (4 primary, 2 interstitial). As needed, product from the silos is loaded into trucks or portable sacks at the base of the silos for shipment off-site. Baghouses are used to control particulate matter (PM) emissions from the transfer of the concrete materials at the dock, into the silos, and into the trucks or sacks. Multiple generators and compressors are located at the dock to power the ship unloader and run the compressors to transfer the materials to the silos. All the generators and compressors at this location are limited on hours of operation in order to avoid PSD for NO_x.

A previous construction permit (Permit No. 0571290-004-AC) authorized the receiving, storage and loadout of aggregate materials. The method of transfer was specified as a direct drop to a storage pile from the ship's conveyor, transfer to a second pile by front-end loader, and loadout to trucks or railcars as needed. However, the permittee has requested a different method for handling the aggregate to improve their efficiency in receiving material and storage pile formation. This construction permit identifies the updated handling method as the receiving of aggregate to a dockside hopper, dropping of material into trucks, transport and loadout to a conveying system from the truck, conveyor transfer to a radial stacker, and final drop to storage piles. Two separate conveyor/radial stackers are present on-site and trucks or railcars will still be bulk-loaded for shipment off-site. Two diesel-powered generators are included in the application to power the two aggregate conveying systems.

Following submittal of the application, the applicant indicated that they wished to include a screening

and washing operation as part of the changes to the aggregate handling operations in order to process a portion of their total throughput that do not meet Department of Transportation standards. We agreed to withhold issuance of the permit until further information on the screening operation was received. Details of the proposed screener addition was requested on February 28, 2012 and the information was received on April 5, 2012. Aggregates requiring screening will be removed from the stockpiles and placed in the screening system by front-end loaders. After processing through the screener, the screened material will be conveyed to a washing system to help clean the material and remove the fines. The washed material will be conveyed to a RazerTail followed by a radial stacker and then dropped onto a storage pile. The screening and washing systems will be powered by diesel-fired generators with maximum ratings of 200 HP and 315 HP, respectively. The washing system will include three diesel-fired water pumps with maximum ratings of 37 HP for two of the pumps and 18 HP for the other. The water pumps were determined to be exempt from permitting due to their small size.

A permit exemption for temporary operation was granted to the facility on November 2, 2011 to perform this new method of aggregate handling with a specified maximum limit of 96,000 tons that could be unloaded and 130 hours of operation for the diesel generators. Actual ship arrival did not occur until late January 2012. During a site inspection performed on February 8, 2012, the aggregate unloading operation was actively receiving and storing limestone in the yard south of the silos. The product was observed to be very wet coming off of the ship and no visible emissions were noted at any point of the operation. Water sprays will be required as part of the construction permit to be used as needed to help control PM emissions from the handling and screening operations. Visible emissions tests will be required on each emission point following issuance of the permit.

PM emissions from the aggregate handling operations (EU014) were estimated at 11.7 tons/yr, and the NOx emissions from the 4 generators were estimated to be over 13.0 tons/yr. However, since the existing limits for NOx total 249 tons/yr of potential emissions for the facility, the limits on the hours of operation for the compressors and generators at the dock (EU008-010, EU013) and the four new generators (EU023) had to be revised in order to avoid PSD. In addition, the potential emissions were updated to clarify the maximum permitted horsepower (HP) based on peak load rather than nominal load for EU009 and EU010. The maximum generator ratings for EU009 and EU010 were increased from 480 HP and 1,200 HP to 575 HP and 1,280 HP, respectively. Therefore, in order to avoid PSD, an hour limit of 3,395 hrs/yr was established for all engines mentioned above, which equates to a maximum potential emissions for the facility of 244 tons/yr for NOx.

Based on our review, we recommend approval of the above referenced permit as drafted.

JDS: 0571290-007-AC

TECHNICAL EVALUATION
AND
PRELIMINARY DETERMINATION
FOR

Titan America, LLC

Hillsborough County

Construction Permit

Application Number

0571290-007-AC

Environmental Protection Commission of

Hillsborough County

Tampa, FL

April 13, 2012

I. Project Description

A. Applicant:

Cindy Burns
Director, Environmental and Property Development
Titan America, LLC
455 Fairway Drive
Deerfield Beach, FL 33441

B. Engineer:

Brad James, P.E.
P.E. No.: 69756
Trinity Consultants
919 Lake Baldwin Lane, Suite B
Orlando, FL 32814

C. Project and Location:

This project is for the modification of the aggregate receiving and handling operation at the concrete raw materials terminal and aggregate handling facility located at 4219 Maritime Blvd., Tampa, FL 33605. Aggregate materials will be received from ships via a dockside hopper, transferred to a conveyor/radial stacker via trucks, and placed in storage piles awaiting transport off-site by trucks or railcars. A portion of the total aggregate throughput will also be processed through a screening and washing operation as needed to meet necessary standards for certain customers. Titan America, LLC (Titan) is a Title V air emissions source located on the southern end of the Port of Tampa.

The project has been assigned the following Source Classification Codes (SCC):

SCC Nos.

3-05-105-99 – Industrial Processes, Mineral Products, Bulk Material Loading Operation, Other Not Classified
2-02-001-02 - Internal Combustion Engines, Industrial, Distillate Oil (Diesel), Reciprocating

The facility has been assigned SIC Industry No. 50 – Wholesale Trade, Durable Goods. The project is located at 4219 Maritime Blvd., Tampa, FL 33605. UTM Coordinates of the location are 17- 359.94E and 3087.81N.

D. Process and Controls:

Titan America, LLC performs multiple operations from their site, primarily the pneumatic handling of concrete raw materials and the receiving, storage, and loadout of aggregate materials through hoppers, conveyors, trucks, etc. Concrete raw materials are received from ships, railcars, and trucks and pneumatically unloaded into one of six large storage silos (4 primary, 2 interstitial). As needed, product from the silos is loaded into trucks or portable sacks at the base of the silos for shipment off-site. Baghouses are used to control particulate matter (PM) emissions from the transfer of the concrete

materials at the dock, into the silos, and into the trucks or sacks. Multiple generators (EU009 and EU010) and compressors (EU008 and EU013) are located at the dock to power the ship unloader and to transfer the materials to the silos. All the generators and compressors at this location are limited on hours of operation in order to avoid PSD. Concrete raw materials can also be loaded into ships from multiple trucks simultaneously using the on-board truck power or portable blowers, and displaced particulate matter (PM) emissions are controlled through baghouses located on the ship, if available, or through a portable baghouse brought on-site for the loading activity.

A previous construction permit (Permit No. 0571290-004-AC) authorized the receiving, storage and loadout of aggregate materials. The method of transfer was specified as a direct drop to a storage pile from the ship's conveyor, transfer to a second pile by front-end loader, and loadout to trucks or railcars as needed. However, the permittee has requested a different method for handling the aggregate to improve their efficiency in receiving material and storage pile formation.

This construction permit identifies the updated handling method. 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 at a maximum rate of 1,500 ton/hr and dropped into a large dockside hopper 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. The radial stacker can pivot in an arc from its receiving point so the storage pile can be shaped and sized without having to relocate the conveying system frequently. Two separate RazerTail conveyors and radial stackers are present on-site to make multiple storage piles. Front-end loaders recover product from the piles as needed and bulk-load the material into trucks or railcars for shipment off-site. Two similar diesel-powered generators with a maximum rating of 324 horsepower (HP) are used power the two aggregate conveying systems.

A permit exemption for temporary operation was granted to the facility on November 2, 2011 to perform this new method of aggregate handling with a specified maximum limit of 96,000 tons that could be unloaded and 130 hours of operation for the diesel generators. Actual ship arrival did not occur until late January 2012.

Following submittal of the application, the applicant indicated that they wished to include a screening and washing operation as part of the changes to the aggregate handling operations in order to process up to 150,000 tons of their total throughput that do not meet Department of Transportation standards. Aggregates requiring screening will be removed from the stockpiles and placed in the screening system by front-end loaders. After processing through the screener, the screened material will be conveyed to a washing system to help clean the material and remove the fines. The washed material will be conveyed to a RazerTail followed by a radial stacker and then dropped onto a storage pile. The emission points following the washing system were not specified as distinct emission points under EU 014 in the permit since the product is expected to be saturated with minimal associated emissions. However, the potential emissions from these points were included in the PTE calculations to reflect worse-case. The screening and washing systems will be powered by diesel-fired generators with maximum ratings of 200 HP and 315 HP, respectively. The washing

system will include three diesel-fired water pumps with maximum ratings of 37 HP for two of the pumps and 18 HP for the other. The water pumps were determined to be exempt from permitting due to their small size pursuant to Rule 62-210.300(3)(a)35, F.A.C., but remain subject to the federal rules for stationary combustion engines.

The new/modified emission units including distinct emission points are described as follows in the permit:

Emission Unit No. 014: Aggregate Material Handling

Emission Point No. 1: Ship Conveyor to Dockside Hopper

Emission Point No. 2: Dockside Hopper to Truck

Emission Point No. 3: Truck to RazerTail Conveying System

Emission Point No. 4: RazerTail Conveying System to Radial Stacker

Emission Point No. 5: Radial Stacker to Storage Pile

Emission Point No. 6: Front-end Loader from Storage Pile to Screener

Emission Point No. 7: Screener

Emission Point No. 8: Screener to Washing System

Emission Point No. 9: Front-end Loader from Final Storage Pile to Truck or Railcar

Emission Unit No. 023: Two Generators (for aggregate conveyor systems); and
Two Generators (for Screener/Washing System)

Particulate Matter (PM) emissions from the aggregate handling operations (EU014) were estimated at 11.7 tons/yr based on the requested maximum total aggregate throughput of 600,000 tons/yr and the requested maximum screener/washing system throughput of 150,000 tons/yr. The transfer point emissions were estimated using the DROP Equation from Table 13.2.4-1 (AP-42). An assumed moisture content of 2.7% was used for the handling operations following the ship unloader based on an analysis of the moisture content of material typically received by ship. The same moisture content was assumed for processes following the washing system based on the addition of water inherent to the design of that system. No additional control efficiencies were added for these processes since the material is assumed significantly moist. A lower assumed moisture content of 0.7% was used for handling of material following the stockpiles due to the potential for significant drying of the piles in the yards over time. Water sprays are required to be present at the transfer points and storage piles to be used as needed to help control PM emissions from the handling operations. A 50% control efficiency was credited on the estimated PM emissions for handling after the stockpiles based on the ability of the facility to add water as needed to help control emissions and meet the opacity standards. PM Emissions from the screener were estimated using the emission factor from Table 11.19.2-2 (AP-42), using the uncontrolled emission factor.

The nitrogen oxide (NO_x) emissions from the 4 generators were estimated to be over 13.0 tons/yr. However, since the existing limits for NO_x total 249 tons/yr of potential emissions for the facility, the limits on the hours of operation for the compressors and generators at the dock (EU008-010, EU013) and the four new generators (EU023) had to be revised in order to avoid PSD. In addition, the potential emissions were updated to clarify the maximum permitted HP based on peak load rather than nominal load for EU009 and EU010. The maximum generator ratings for EU009 and EU010 were increased from 480 HP and 1,200 HP to 575 HP and 1,280 HP, respectively. Therefore, in order to avoid PSD, an hour limit of 3,395 hrs/yr was established for all engines mentioned above, which equates to a maximum potential emissions for the facility of 244 tons/yr for NO_x.

The facility is subject to Rule 62-296.711, F.A.C. - Materials Handling, Sizing, Screening, Crushing and Grinding Operations and Chapter 1-3.52, Rules of the EPC, which limits visible emissions to a 5% opacity standard for all of the material handling operations. Visible emissions tests will be required on each emission point following issuance of the permit. The four new diesel fuel fired generators and three water pumps are subject to 40 CFR 60 Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines and 40 CFR 63 ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

E. Application Information:

Received on: January 16, 2012

Information Requested: n/a

Application Complete: January 16, 2012

II. Rule Applicability

This project is subject to the preconstruction review requirements of Chapter 403, Florida Statutes, Chapters, 62-204, 62-210, 62-212, 62-296, and 62-297, Florida Administrative Code (F.A.C.) and Chapter 1-3 of the Rules of the Environmental Protection Commission of Hillsborough County.

This project is subject to the requirements of Rule 62-212.300, Sources Not Subject to Prevention of Significant Deterioration or Nonattainment Requirements, F.A.C., since the project is not exempt from the permit requirements in Rule 62-210.300, F.A.C.

This project is not subject to the requirements of Rule 62-212.400, Prevention of Significant Deterioration, F.A.C. or Rule 62-212.500, New Source Review for Nonattainment Areas, F.A.C., since the project does not result in a major modification.

This project is subject to the requirements of Rule 62-213, Operation Permits for Major Sources of Air Pollution, F.A.C., since the facility is Title V source by state definition.

This project is subject to the requirements of Rule 62-296.320, General Pollutant Emission Limiting Standards, F.A.C., since the facility is a source of particulate matter.

This project is not subject to the requirements of Rule 62-296.401 through 62-296.417, Specific Emission Limiting and Performance Standards, F.A.C., since there is not a defined category for this project.

This project is not subject to the requirements of Rule 62-296.500, Volatile Organic Compounds and Nitrogen Oxide Reasonably Available Control Technology, F.A.C., since there is no applicable source specific category in this rule.

This project is not subject to the requirements of Rule 62-296.600, Lead Reasonably Available Control Technology, F.A.C., since there is no applicable source specific category in this rule.

The project is subject to the requirements of Rule 62-296.700, Particulate Matter Reasonably Available Control Technology, F.A.C., since there is an applicable source specific category in this rule – Rule 62-296.711, F.A.C. Materials Handling, Sizing, Screening, Crushing and Grinding Operations.

This project is subject to the requirements of Rule 62-204.800, Standards of Performance for New Stationary Sources, Federal Regulations Adopted by Reference, F.A.C., since there are applicable source specific categories in this rule, specifically 40 CFR 60 Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines and 40 CFR 63 Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

This project is subject to the requirements of Chapter 84-446, Laws of Florida and Chapter 1-3, Rules of the Environmental Protection Commission of Hillsborough County.

III. Summary of Emissions

Particulate Matter Emissions

E.U. No.	Description	Potential PM (tpy)	Actual PM (tpy)	Increase in PM (tpy)	Allowable Emissions
008	Five 440 HP Diesel Fuel Fired Air Compressors	8.2	0.02	8.2	20% opacity
009	One 575 HP Diesel Fuel Fired Generator	2.1	0.002	2.1	20% opacity
010	One 1,280 HP Diesel Fuel Fired Generator	1.5	0.001	1.5	20% opacity
013	One 475 HP Diesel Fuel Fired Air Compressor	0.6	0.001	0.6	20% opacity
014	Aggregate Material Handling	11.7	--	11.7	5% opacity
023	Four Generators for Aggregate Handling	0.7	--	0.7	20% opacity
	Total	24.8	0.024	24.8	

- Actual Emissions are based on the average of 2009 and 2010 AOR data.
- PM Emissions for EU Nos. 008 and 009 are based on the horsepower of the equipment and emission factors from AP 42 5th Edition, Ch. 3.3 – Gasoline and Diesel Industrial Engines.
- PM Emissions for EU No. 010 are based on the horsepower of the generator and emission factors from AP 42 5th Edition, Ch. 3.4 – Large Stationary Diesel and All Stationary Dual-fuel Engines.
- PM Emissions for EU No. 013 are based on the horsepower of the compressor and emission factors from the manufacturer’s information submitted with the application for Permit No. 0571290-004-AC.
- PM Emissions for EU No. 014 are based on the drop equation in AP-42 5th Edition, Chapter 13.2.4 - Aggregate Handling and Storage Piles, using: 1) an average moisture content of 2.7% for handling of material after the ship and/or washing system; and 2) an average moisture content of 0.7% for handling of material after the stockpiles along with a control efficiency of 50% for a water addition. PM Emissions from the screener are based on the emission factor in AP-42 5th Edition, Table 11.19.2-2 – Emission Factors for Crushed Stone Processing Operations, using the uncontrolled emission factor.
- PM Emissions for EU No. 023 are based on the horsepower of the engines and the emission limits required for Tier 3 engines from 40 CFR 60, Subpart IIII.

Potential Criteria Pollutants

E.U. No.	Description	Potential NOx (tpy)	Potential CO (tpy)	Potential SOx (tpy)	Potential VOC (tpy)
008	Five 440 HP Diesel Fuel Fired Air Compressors	115.8	24.9	7.7	9.2
009	One 575 HP Diesel Fuel Fired Electric Generator	30.3	6.5	2.0	2.4
010	One 1,280 HP Diesel Fuel Fired Electric Generator	52.1	12.0	8.8	1.5
013	One 475 HP Diesel Fuel Fired Air Compressor	6.0	4.3	1.7	0.5

023	Four Generators for Aggregate Handling	13.0	11.3	4.0	4.9
	Total	217.2	59.0	24.2	18.5

- Emissions for EU Nos. 008 and 009 are based on the horsepower of the equipment and emission factors from AP 42 5th Edition, Ch. 3.3 – Gasoline and Diesel Industrial Engines.
- Emissions for EU No. 010 are based on the horsepower of the generator and emission factors from AP 42 5th Edition, Ch. 3.4 – Large Stationary Diesel and All Stationary Dual-fuel Engines.
- Emissions for EU No. 013 are based on the horsepower of the compressor and emission factors from the manufacturer’s information submitted with the application for Permit No. 0571290-004-AC.
- Emissions for EU No. 023 are based on the horsepower of the engines and: 1) the emission limits for NOx and CO required for Tier 3 engines from 40 CFR 60, Subpart IIII; and 2) the emission factors for SOx and VOC from AP 42 5th Edition, Ch. 3.3 – Gasoline and Diesel Industrial Engines.
- The potential emissions for all engines above are based on a maximum permitted operating time of 3,395 hrs/yr in order to avoid PSD for NOx. The resulting facility-wide emissions for NOx including the ship loading emission units (EU021 and EU022, not shown above) are 244 ton/yr.

Actual Criteria Pollutants

E.U. No.	Description	Actual NOx (tpy)	Actual CO (tpy)	Actual SOx (tpy)	Actual VOC (tpy)
008	Five 440 HP Diesel Fuel Fired Air Compressors	0.250	0.055	0.017	0.021
009	One 575 HP Diesel Fuel Fired Electric Generator	0.020	0.005	0.002	0.002
010	One 1,280 HP Diesel Fuel Fired Electric Generator	0.025	0.007	0.009	0.001
013	One 475 HP Diesel Fuel Fired Air Compressor	0.005	0.003	0.001	0.001
023	Four Generators for Aggregate Handling	--	--	--	--
	Total	.30	0.07	0.03	0.03

- Actual Emissions are based on the average of 2009 and 2010 AOR data.

Increase in Criteria Pollutants

E.U. No.	Description	Increase in NOx (tpy)	Increase in CO (tpy)	Increase in SOx (tpy)	Increase in VOC (tpy)
008	Five 440 HP Diesel Fuel Fired Air Compressors	115.5	24.9	7.6	9.2
009	One 575 HP Diesel Fuel Fired Electric Generator	30.2	6.5	2.0	2.4
010	One 1,280 HP Diesel Fuel Fired Electric Generator	52.1	11.9	8.8	1.5
013	One 475 HP Diesel Fuel Fired Air Compressor	6.0	4.3	1.7	0.5
023	Four Generators for Aggregate Handling	13.0	11.3	4.0	4.9

	Total	216.8	58.9	24.1	18.5
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IV. Conclusions:

The emission limits proposed by the applicant will meet all of the requirements of Chapters 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C., and Chapter 1-3, Rules of the Commission.

The General and Specific Conditions listed in the proposed permit (attached) will assure compliance with all the applicable requirements of Chapters 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C.

V. Proposed Agency Action:

Pursuant to Section 403.087, Florida Statutes and Rule 62-4.070, Florida Administrative Code the Environmental Protection Commission of Hillsborough County hereby gives notice of its intent to issue a permit for construction of the aforementioned air pollution source in accordance with the draft permit and its conditions as stipulated (see attached).

CERTIFIED MAIL

In the Matter of an
Application for Permit by:

Cindy Burns
Director, Environmental and Property Development
Titan America, LLC
455 Fairway Drive
Deerfield Beach, FL 33441

File No.: 0571290-007-AC
County: Hillsborough

INTENT TO ISSUE

The Environmental Protection Commission of Hillsborough County (EPC), as delegated by the Florida Department of Environmental Protection (DEP) gives notice of its intent to issue a permit (copy attached) for the proposed project as detailed in the application specified above, for the reasons stated below.

The applicant, Titan America, LLC, applied on January 16, 2012 to the EPC for a construction permit for the modification of the aggregate receiving and handling operation at the concrete raw materials terminal and aggregate handling facility. Aggregate materials will be received from ships via a dockside hopper, transferred to a conveyor/radial stacker via trucks, and placed in storage piles awaiting transport off-site by trucks or railcars. A portion of the total aggregate throughput will also be processed through a screening and washing operation as needed to meet necessary standards for certain customers. The facility is a Title V air emissions source for NOx emissions. PM emissions from aggregate handling are controlled by the moisture content of the products, water spray systems, partial enclosures, and the use of reasonable precautions. The facility is located at 4219 Maritime Blvd., Tampa, FL, Hillsborough County, FL, 33605.

The EPC has permitting jurisdiction under Chapter 403 Florida Statutes (F.S.) and Florida Administrative Code (F.A.C.) Chapters 62-4 and 62-210. The project is not exempt from permitting procedures. The EPC has determined that an air pollution construction permit is required to commence or continue operations at the described facility.

The EPC intends to issue this permit based on the belief that reasonable assurances have been provided to indicate that operation of the source will comply with the appropriate provisions of Florida Administrative Code (F.A.C.) Chapters 62-204 through 62-297 and 62-4. Pursuant to Section 403.815 and 403.0872, F.S. and Rules 62-103.150 and 62-210.350(3), F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue Permit. The notice shall be published one time as soon as possible, in the legal advertisement section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. Where there is more than one newspaper of general circulation in the county, the newspaper used must be one with significant circulation in the area that may be affected by the permit. If you are uncertain that a newspaper meets these requirements, please contact the EPC at the address or telephone number listed below. **The applicant shall provide proof of publication to the EPC, Air Permitting Section, at 3629 Queen Palm Drive, Tampa, Florida 33619 (Phone 813-627-2600 - FAX 813-627-2660) within 7 (seven) days of publication.** Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit pursuant to Rule 62-103.150(6), F.A.C.

The EPC will issue the final permit with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to Section 120.569 and 120.57 F.S. before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Legal Department of the EPC at 3629 Queen Palm Drive, Tampa, Florida 33619, Phone 813-627-2600, Fax 813-627-2602. Petitions filed by the permit applicant or any of the parties listed below must be filed within 14 (fourteen) days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S. must be filed within 14 (fourteen) days of publication of the public notice or within 14 (fourteen) days of receipt of this notice of intent, whichever occurs first. Under Section 120.60(3), however, any person who asked the EPC for notice of agency action may file a petition within 14 (fourteen) days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S.; or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the EPC's action is based must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number if known;
- (b) The name, address, and telephone number of the petitioner and the name, address, and telephone number of each petitioner's representative, if any, which shall be the address for service purposes during the course of the proceedings; and an explanation of how the petitioner's substantial interests will be affected by the EPC's determination;

- (c) A statement of how and when the petitioner received notice of the EPC action;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the EPC's proposed action;
- (f) A statement of specific rules or statutes the petitioner contends requires reversal or modification of the EPC's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the EPC to take with respect to the EPC's proposed action.

A petition that does not dispute the material facts upon which the EPC's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the EPC's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the EPC on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation under section 120.573, F.S. is not available in this proceeding.

This action is final and effective on the date filed with the Clerk of the EPC unless a petition is filed in accordance with above. Upon the timely filing of a petition, this order will not be effective until further order of the EPC.

In addition to the above, a person subject to regulation has a right to apply to the Department of Environmental Protection for a variance from or waiver of the requirements of particular rules, on certain conditions, under Section 120.542, F.S. The relief provided by this state statute applies only to state rules, not statutes, and not to any federal regulatory requirements. Applying for a variance or waiver does not substitute or extend the time for filing a petition for an administrative hearing or exercising any other right that a person may have in relation to the action proposed in this notice of intent.

The application for a variance or waiver is made by filing a petition with the Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, FL 32399-3000. The petition must specify the following information:

- (a) The name, address, and telephone number of the petitioner,
- (b) The name, address, and telephone number of the attorney or qualified representative of the petitioner, if any,
- (c) Each rule or portion of a rule from which a variance or waiver is requested,
- (d) The citation to the statute underlying (implemented by) the rule identified in (c) above,
- (e) The type of action requested,
- (f) The specific facts that would justify a variance or waiver for the petitioner,

(g) The reason by the variance or waiver would serve the purposes of the underlying statute (implemented by the rule), and

(h) A statement whether the variance or waiver is permanent or temporary and, if temporary, a statement of the dates showing the duration of the variance or waiver requested.

The Department will grant a variance or waiver when the petition demonstrates both that the application of the rule would create a substantial hardship or violate principles of fairness, as each of the those terms is defined in Section 120.542(2), F.S., and that the purpose of the underlying statute will be or has been achieved by other means by the petitioner.

Persons subject to regulation pursuant to any federally delegated or approved air program should be aware that Florida is specifically not authorized to issue variances or waivers from any requirements of any such federally delegated or approved program. The requirements of the program remain fully enforceable by the Administrator of United States Environmental Protection Agency and by any person under the Clean Air Act unless and until the Administrator separately approves any variance or waiver in accordance with the procedures of the federal program.

Any person listed below may request to obtain additional information, a copy of the application (except for information entitled to confidential treatment pursuant to Section 403.111, F.S.), all relevant supporting materials, and all other materials available to the EPC that are relevant to the permit decision. Interested persons may contact Diana M. Lee, P.E., at the above address or call (813) 627-2600, for additional information.

Any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes, by filing a notice of appeal under rule 9.110 of the Florida rules of Appellate Procedure with the EPC's Legal Office at 3629 Queen Palm Dr., Tampa, Florida 33619 and with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, 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 thirty days after this order is filed with the clerk of the Department.

Executed in Tampa, Florida

ENVIRONMENTAL PROTECTION COMMISSION
OF HILLSBOROUGH COUNTY

Richard D. Garrity, Ph.D.
Executive Director

cc: Florida Department of Environmental Protection (via email)
Brad James, P.E. – Trinity Consultants (via e-mail)

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on _____ to the listed persons.

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

Clerk

Date

ENVIRONMENTAL PROTECTION COMMISSION
OF HILLSBOROUGH COUNTY
NOTICE OF INTENT TO ISSUE PERMIT

The Environmental Protection Commission of Hillsborough County (EPC), as delegated by the Florida Department of Environmental Protection (DEP), gives notice of its intent to issue an air pollution permit (Permit No. 0571290-007-AC) to Titan America, LLC. The applicant applied on January 16, 2012 to the EPC for a construction permit for the modification of the aggregate receiving and handling operation, including the addition of a screening and washing operation, at the concrete raw materials terminal and aggregate handling facility. The facility is a Title V air emissions source for NOx emissions. PM emissions from aggregate handling are controlled by the moisture content of the products, water spray systems, partial enclosures, and the use of reasonable precautions. The facility is located at 4219 Maritime Blvd., Tampa, FL, Hillsborough County, FL, 33605.

A Best Available Control Technology (BACT) determination was not required.

The EPC will issue the Final permit with the conditions of the DRAFT permit unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57, F.S. before the deadline for filing a petition. The procedures for petitioning for hearing are set forth below.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Legal Department of the EPC at 3629 Queen Palm Drive, Tampa, Florida 33619, Phone 813-627-2600, Fax 813-627-2602. Petitions filed by the permit applicant or any of the parties listed below must be filed within 14 (fourteen) days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S. must be filed within 14 (fourteen) days of publication of the public notice or within 14 (fourteen) days of receipt of this notice of intent, whichever occurs first. Under Section 120.60(3), however, any person who asked the EPC for notice of agency action may file a petition within 14 (fourteen) days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the F.A.C.

A petition that disputes the material facts on which the EPC's action is based must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number if known;
- (b) The name, address, and telephone number of the petitioner, and the name, address, and telephone number of each petitioner's representative, if any, which shall be the address for service purposes during the course of the proceedings; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
- (c) A statement of how and when petitioner received notice of the EPC action;

(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

(e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the EPC proposed action;

(f) A statement of specific rules or statutes the petitioner contends requires reversal or modification of the EPC's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and

(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the EPC to take with respect to the EPC's proposed action.

A petition that does not dispute the material facts upon which the EPC's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above as required by Rule 28-106.301.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the EPC's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the EPC on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation under section 120.573, F.S. is not available in this proceeding.

This action is final and effective on the date filed with the Clerk of the EPC unless a petition is filed in accordance with above. Upon the timely filing of a petition this order will not be effective until further order of the EPC.

Any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes, by filing a notice of appeal under rule 9.110 of the Florida rules of Appellate Procedure with the EPC's Legal Office at 3629 Queen Palm Drive, Tampa, Florida 33619 and with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, 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 thirty days after this order is filed with the clerk of the Department.

The complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Environmental Protection Commission of Hillsborough County, 3629 Queen Palm Drive, Tampa, Florida 33619. The complete project file includes the proposed Permit, the application, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact Diana M. Lee, P.E., at the above address, or call 813-627-2600, for additional information. Any written comments filed shall be available for public inspection. If written comments received result in a significant change in the proposed agency action, the EPC shall revise the proposed permit and require, if applicable, another Public Notice.

ENVIRONMENTAL PROTECTION COMMISSION OF
HILLSBOROUGH COUNTY, as Delegated by

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

NOTICE OF PERMIT

Cindy Burns
Director, Environmental and Property Development
Titan America, LLC
455 Fairway Drive
Deerfield Beach, FL 33441

Dear Ms. Burns:

Re: Hillsborough County - AP

Enclosed is Permit No. 0571290-007-AC for the modification of the aggregate receiving and handling operation, including the addition of a screening and washing operation, at the concrete raw materials terminal and aggregate handling facility located at 4219 Maritime Blvd., Tampa, FL, Hillsborough County, FL, 33605. This permit is issued pursuant to Section 403.087, Florida Statutes.

Any party to this order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the EPC in the Legal Department at 3629 Queen Palm Dr, Tampa, FL 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 of Appeal must be filed within 30 days from the date this Notice is filed with the clerk of the EPC.

Executed in Tampa, Florida.

Sincerely,

Richard D. Garrity, Ph.D.
Executive Director

RDG/JDS/jds

cc: Florida Department of Environmental Protection (via email)
Brad James, P.E. – Trinity Consultants (via email)

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on _____ to the listed persons.

Clerk Stamp

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

Clerk

Date

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

PERMIT/CERTIFICATION
Permit No.: 0571290-007-AC
County: Hillsborough
Expiration Date: October 13, 2013
Project: Aggregate Handling Modification

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 62-204, 62-210, 62-212, 62-296, 62-297, and 62-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the EPC and made a part hereof and specifically described as follows:

This project authorizes the modification of the existing aggregate receiving and handling operation at the concrete raw materials terminal and aggregate handling facility. The facility is currently permitted to receive, store and load out aggregate materials. The existing method of transfer was specified as a direct drop to a storage pile from the ship's conveyor, transfer to a second pile by front-end loader, and loadout to trucks or railcars as needed. However, the permittee has requested a different method for handling the aggregate, including the addition of a screening and washing operation, to improve their efficiency in processing material and storage pile formation.

This construction permit identifies the updated handling method. 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 at a maximum rate of 1,500 ton/hr and dropped into a large dockside hopper 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. The radial stacker can pivot in an arc from its receiving point so the storage pile can be shaped and sized without having to relocate the conveying system frequently. Two separate RazerTail conveyors and radial stackers are present on-site to make multiple storage piles. Front-end loaders recover product from the piles as needed and bulk-load the material into trucks or railcars for shipment off-site. Two similar diesel-powered generators with a maximum rating of 324 horsepower (HP) are used power the two aggregate conveying systems. The facility will handle a maximum of 600,000 tons/year of aggregate material.

This construction permit also identifies the addition of a material screening and washing operation.

Aggregates requiring screening will be removed from the stockpiles and placed in the screening system by front-end loaders. After processing through the screener, the screened material will be conveyed to a washing system to help clean the material and remove the fines. The washed material will be conveyed to a RazerTail followed by a radial stacker and then dropped onto a storage pile. The emission points following the washing system were not specified as distinct emission points under EU 014 in the permit since the product is expected to be saturated with minimal associated emissions. The screening and washing systems will be powered by diesel-fired generators with maximum ratings of 200 HP and 315 HP, respectively. The washing system will include three diesel-fired water pumps with maximum ratings of 37 HP for two of the pumps and 18 HP for the other. The water pumps were determined to be exempt from permitting due to their small size pursuant to Rule 62-210.300(3)(a)35, F.A.C., but remain subject to the federal rules for stationary combustion engines (40 CFR 60 - Subpart IIII and 40 CFR 63 – Subpart ZZZZ). The facility will process a maximum of 150,000 tons/year of aggregate material through the screener and washing operation.

Water sprays are required to be present at the aggregate transfer points and storage piles to be used as needed to help control PM emissions from the handling operations and meet the 5% opacity standard for aggregate handling operations.

The facility also performs other operations besides aggregate handling from their site, including the pneumatic handling of concrete raw materials, which are 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. Concrete raw materials are received from ships, railcars, and trucks and pneumatically unloaded into one of six large storage silos (4 primary, 2 interstitial). As needed, product from the silos is loaded into trucks or portable sacks at the base of the silos for shipment off-site. Baghouses are used to control particulate matter (PM) emissions from the transfer of the concrete materials at the dock, into the silos, and into the trucks or sacks. Electricity to power the ship unloading system is provided by one 575 HP diesel fuel fired electric generator (EU009) and one 1,280 HP diesel fuel fired electric generator (EU010). The compressed air is provided by five existing 440 HP diesel fuel fired air compressors (EU008) and a new 475 HP Caterpillar, C-15, Industrial diesel fuel fired air compressor (EU013). Each of these compressors and generators are authorized to operate 3,395 hrs/year in order to avoid PSD for NOx. Concrete raw materials can also be loaded into ships from multiple trucks simultaneously using the on-board truck power or portable blowers, and displaced particulate matter (PM) emissions are controlled through baghouses located on the ship, if available, or through a portable baghouse brought on-site for the loading activity.

Since this aggregate handling project included the addition of 4 diesel-fired generators, the applicant elected to reduce the limit on the hours of operation for several of the existing engines in order to remain below the PSD threshold for NOx. Therefore, the affected units with a reduction in their hours of operation limit have been included in this permit. In addition, the potential emissions were updated in this permit to clarify the maximum permitted HP based on peak load rather than nominal load for EU009 and EU010. The maximum generator ratings for EU009 and EU010 were increased from 480 HP and 1,200 HP to 575 HP and 1,280 HP, respectively.

Location: 4219 Maritime Blvd., Tampa, FL 33605

UTM: 17- 359.94E 3087.81N Facility ID No.: 0571290

Emission Unit Nos.:

EU No. 008 - Five 440 HP Diesel Fuel Fired Air Compressors

EU No. 009 - One 575 HP Diesel Fuel Fired Generator

EU No. 010 - One 1,280 HP Diesel Fuel Fired Generator

EU No. 013 - One 475 HP Diesel Fuel Fired Air Compressor

EU No. 014 - Aggregate Material Handling

Emission Point No. 1: Ship Conveyor to Dockside Hopper

Emission Point No. 2: Dockside Hopper to Truck

Emission Point No. 3: Truck to RazerTail Conveying System

Emission Point No. 4: RazerTail Conveying System to Radial Stacker

Emission Point No. 5: Radial Stacker to Storage Pile

Emission Point No. 6: Front-end Loader from Storage Pile to Screener

Emission Point No. 7: Screener

Emission Point No. 8: Screener to Washing System

Emission Point No. 9: Front-end Loader from Final Storage Pile to Truck or Railcar

EU No. 023 - Two Generators (for aggregate conveyor systems); and
Two Generators (for screener/washing system)

References Permit No.: 0571290-004-AC

Replaces Permit No.: N/A

PERMITTEE:
Titan America, LLC

PERMIT/CERTIFICATION NO.: 0571290-007-AC
PROJECT: Aggregate Handling Modification

FACILITY-WIDE CONDITIONS:

A. Facility Wide Conditions

A.1. 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 to comply with county, municipal, federal, or other state regulations prior to construction. [Rule 62-4.070(7), F.A.C.]

A.2. 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.

A.3. 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. [Rule 62-4.070(3), F.A.C.]

A.4. 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 Application Received January 16, 2012]

A.5. General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. No person shall 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.]

A.6. General Pollutant Emission Limiting Standards. 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 (VOC) or organic solvents (OS) without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. Nothing was deemed necessary and ordered at this time. [Rule 62-296.320(1)(a), F.A.C.]

A.7. Emissions of Unconfined Particulate Matter. Pursuant to Rules 62-296.320(4)(c)1., 3. & 4., F.A.C., reasonable precautions to prevent emissions of unconfined particulate matter at this facility shall include the following requirements: [Rule 62-296.320(4)(c)2., F.A.C.; and Permit Application Received January 16, 2012]

- 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) Maintain trafficked areas clean. Post a sign to limit vehicle speeds to 10 miles per hour.

PERMITTEE:
Titan America, LLC

PERMIT/CERTIFICATION NO.: 0571290-007-AC
PROJECT: Aggregate Handling Modification

FACILITY-WIDE CONDITIONS:

- E) Exercise good housekeeping practices at all times.
- F) Paving or maintenance of roads, parking areas, and yards.
- G) Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, and open stock piles, as necessary.
- H) 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.
- I) Water sprays shall be installed and used as necessary to ensure compliance with the 5% opacity standard for material handling.
- J) Reduction of stock pile height or installation of wind breaks to mitigate wind entrainment of particulate matter from stock piles, as necessary.
- K) Maintain material drop points as low as possible.

A.8. The permittee shall ensure that the aggregate handling and screener/washing system operations are in compliance with the following operation and maintenance plan: [Rule 62-4.070(3), F.A.C.; and Permit Application Received January 16, 2012]

A) Daily (when in operation)

- i. Check the material for adequate moisture at the receiving point.
- ii. Use the water spray system as needed to address excess particulate matter emissions due to insufficient moisture content of the product as received.
- iii. Maintain the unpaved trafficked areas adequately wet, as necessary, to minimize the generation of fugitive emissions.
- iv. Inspect the material drop points and maintain a minimum drop height distance as reasonably possible.
- v. Minimize the pile height as needed.
- vi. Inspect the road and other paved surfaces. Clean as necessary.

B) Monthly

- i. Perform maintenance inspections on the water spray systems. Record the date the inspection was performed and any maintenance work performed.

A.9. When appropriate, any recording, monitoring, or reporting requirements that are time-specific shall be in accordance with the effective date of the permit, which defines day one. [Rule 62-213.440, F.A.C.]

A.10. 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, F.A.C. 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.]

- A) Alteration or replacement of any equipment or major component of such equipment.

PERMITTEE:
Titan America, LLC

PERMIT/CERTIFICATION NO.: 0571290-007-AC
PROJECT: Aggregate Handling Modification

FACILITY-WIDE CONDITIONS:

- 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.

A.11. [Reserved.]

A.12. [Reserved.]

A.13. The permittee shall not allow any person to circumvent any pollution control device or allow the emissions of air pollutants without the applicable air pollution control device operating properly. [Rule 62-210.650, F.A.C.]

A.14. [Reserved.]

A.15. Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C.]

A.16. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

A.17. In case of excess emissions resulting from malfunctions, the owner or operator shall notify the EPC in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the EPC. [Rules 62-4.130 and 62-4.070(3), F.A.C.]

A.18. 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.]

A.19. The permittee shall submit all compliance related notifications and reports required of this permit to the Environmental Protection Commission of Hillsborough County at:

Environmental Protection Commission
Air Management Division
3629 Queen Palm Dr.
Tampa, FL 33619
Telephone: 813/627-2600, Fax: 813/627-2660

PERMITTEE:
Titan America, LLC

PERMIT/CERTIFICATION NO.: 0571290-007-AC
PROJECT: Aggregate Handling Modification

FACILITY-WIDE CONDITIONS:

A.20. Any reports, data, notifications, certifications, and requests required to be sent to the United States Environmental Protection Agency, Region 4, should be sent to:

United States Environmental Protection Agency
Region 4
Air, Pesticides & Toxics Management Division
Air and EPCRA Enforcement Branch
Air Enforcement Section
61 Forsyth Street
Atlanta, Georgia 30303-8960
Telephone: 404/562-9155; Fax: 404/562-9163

A.21. Prevention of Accidental Releases (Section 112(r) of CAA).

a. The permittee shall submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center when, and if, such requirement becomes applicable. 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

and,

b. The permittee shall submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C. [40 CFR 68]

A.22. Certification by Responsible Official (RO). In addition to the professional engineering certification required for applications by Rule 62-4.050(3), F.A.C., any application form, report, compliance statement, compliance plan and compliance schedule submitted pursuant to Chapter 62-213, F.A.C., shall contain a certification signed by a responsible official that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Any responsible official who fails to submit any required information or who has submitted incorrect information shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary information or correct information. [Rule 62-213.420(4), F.A.C.]

A.23. The owner or operator shall notify 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 test contact person who will be responsible for coordinating and having such test conducted. [Rule 62-297.310(7)(a)9., F.A.C.]

PERMITTEE:
Titan America, LLC

PERMIT/CERTIFICATION NO.: 0571290-007-AC
PROJECT: Aggregate Handling Modification

FACILITY-WIDE CONDITIONS:

A.24. Submit two copies any test data to the Air Compliance Section of the Air Management Division of the Environmental Protection Commission of Hillsborough County within forty-five days of such testing. Test procedures shall be consistent with the requirements of Rule 62-297.310, F.A.C. [Rule 62-297.310(8)(b), F.A.C.]

A.25. 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.]

A.26. Submit to the Environmental Protection Commission of Hillsborough County each calendar year on or before April 1, completed DEP Form 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility", for the preceding calendar year. [Rule 62-210.370(2), F.A.C.]

A.27. [Reserved.]

A.28. A minimum of two copies of an air operating permit application with a copy of the compliance tests required under this permit shall be submitted to the Environmental Protection Commission of Hillsborough County within 90 days of completion of the compliance tests on the ship unloading operation or at least 180 days prior to the expiration date of this permit, whichever occurs first. [Rules 62-4.090, 62-210.300(2), and 62-210.900, F.A.C.]

PERMITTEE:
Titan America, LLC

PERMIT/CERTIFICATION NO.: 0571290-007-AC
PROJECT: Aggregate Handling Modification

SPECIFIC CONDITIONS:

B. Aggregate Material Handling Operation

The following conditions apply to the following emission units:

EU No. 014 – Aggregate Material Handling

- Emission Point No. 1: Ship Conveyor to Dockside Hopper
- Emission Point No. 2: Dockside Hopper to Truck
- Emission Point No. 3: Truck to RazerTail Conveying System
- Emission Point No. 4: RazerTail Conveying System to Radial Stacker
- Emission Point No. 5: Radial Stacker to Storage Pile
- Emission Point No. 6: Front-end Loader from Storage Pile to Screener
- Emission Point No. 7: Screener
- Emission Point No. 8: Screener to Washing System
- Emission Point No. 9: Front-end Loader from Final Storage Pile to Truck or Railcar

B.1. The following restrictions and limitations shall apply: [Rule 62-4.070(3), F.A.C.; and Permit Application Received January 16, 2012]

- 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 600,000 tons per any consecutive 12-month period.
- C) The combined throughput of the materials in A) above processed through the aggregate screener/washing system shall not exceed 150,000 tons per any consecutive 12-month period.
- D) The maximum ship unloading rate shall not exceed 1,500 tons/hr.
- E) The maximum truck loading and railcar loading rate shall not exceed 600 tons/hr.
- F) The maximum process rate through the screener/washing system shall not exceed 300 tons/hr.
- G) Hours of operation of the aggregate material handling operation and screener/washing system are not restricted.
- H) Install and maintain a water spray system(s) on all aggregate material transfer points and in 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.
- I) 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.
- J) 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.

B.2. The permittee shall not cause, permit, or allow any visible emissions (five (5) percent opacity)

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from any aggregate handling 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 Application Received January 16, 2012]

- A) Ship Hold Conveyor Belts
- B) Material Drops to Hopper, RazerTail Receiving Grate, Screener and Storage Piles
- C) Material Transfer Points on Conveying Systems
- D) Screener and Washing System Operations
- E) Front End Loader Transfer Operations
- F) Truck and Railcar Loading Operations

B.3. Test each emission point associated with Emission Unit No. 014 for visible emissions as specified below. Submit two copies of the test results to the Environmental Protection Commission of Hillsborough County within 45 days of testing. The following visible emission tests shall be conducted in accordance with Rule 62-297.310, F.A.C.: [Rules 62-297.310(4)(a)2.a. and (7), F.A.C.]

- A) Test each emission point associated with the ship unloading and truck/railcar loading operations for visible emissions at the point of highest opacity at the first instance that a ship is unloaded following issuance of this permit, and annually thereafter.
- B) Test each emission point associated with the screener/washing system for visible emissions at the point of highest opacity at the first instance that the screener/washing system is operated following issuance of this permit, and annually thereafter.

B.4. Compliance with the emission limitations of Specific Condition No. B.2. 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 at least 30 minutes in duration unless the operation is completed in less than 30 minutes and does not reoccur during the observation period. 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 62-297.310, 62-297.310(4)(a)2, and 62-296.711(3)(a) F.A.C.]

B.5. Testing of emissions shall be conducted with the source operating at capacity. Capacity is defined as 90-100% of rated capacities of 1,500 tons/hour for the ship unloading and conveyor transfer rates, 600 tons/hour for the truck and railcar loading rates, and 300 tons/hour for the screener/washing system. 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 the purpose of additional compliance testing to regain the rated capacity in the permit, with prior notification to the EPC. Failure to submit the unloading and loading rates and actual operating conditions may invalidate the test. [Rules 62-4.070(3) and 62-297.310(2), F.A.C.]

B.6. In order to ensure compliance with Specific Condition No. B.1., the permittee shall maintain a

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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 five 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 62-213.440(1)(b)2.b. and 62-4.070(3), F.A.C.]

- A) Month, Year
- B) Amount and type of material received (tons)
- C) Amount and type of material processed through the aggregate screener/washing system (tons)
- D) Amount and type of material loaded into trucks or railcars (tons)
- E) Rolling 12-month total of B), C), and D) above
- F) Records of maintenance inspections as required by Specific Condition No. A.8.B)
- G) Records of moisture content testing on each aggregate shipment received from ships

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C. Diesel Fired Air Compressors and Generators

The following conditions apply to the following emission units:

- EU No. 008 - Five 440 HP Diesel Fuel Fired Air Compressors
- EU No. 009 - One 575 HP Diesel Fuel Fired Generator
- EU No. 010 – One 1,280 HP Diesel Fuel Fired Generator
- EU No. 013 - One 475 HP Diesel Fuel Fired Air Compressor
- EU No. 023 - Two Generators (for aggregate conveyor systems); and
Two Generators (for screener/washing system)

C.1. As requested by the permittee, in order to remain a minor facility with respect to the requirements of Rule 62-212.400, Prevention of Significant Deterioration, F.A.C. or Rule 62-212.500, New Source Review for Nonattainment Areas, F.A.C., each fuel burning emission unit is limited to operating 3,395 hours per year. [Rules 62-4.070(3), F.A.C.; and Permit Application Received January 16, 2012]

C.2. In order to ensure compliance with Specific Condition No. C.1., the quantity and horsepower of the air compressors and generators at the facility shall not exceed the following: [Rule 62-4.070(3), F.A.C.; and Permit Application Received January 16, 2012]

- A) Emission Unit No. 008 shall include no more than five diesel fired air compressors rated at a maximum of 440 HP each.
- B) Emission Unit No. 009 shall include no more than one diesel fired generator rated at a maximum of 575 HP.
- C) Emission Unit No. 010 shall include no more than one diesel fired generator rated at a maximum of 1,280 HP.
- D) Emission Unit No. 013 shall include no more than one diesel fired air compressor rated at a maximum of 475 HP.
- E) Emission Unit No. 023 shall include no more than two diesel fired generators for the aggregate conveyor systems rated at a maximum of 324 HP each.
- F) Emission Unit No. 023 shall include no more than two diesel fired generators for the screener and washing systems rated at a maximum of 200 HP and 315 HP each, respectively.

C.3. [Reserved]

C.4. Visible emissions from each air compressor and generator shall not be equal to or greater than 20% opacity. [Rule 62-296.320(4)(b)1., F.A.C.; and Ch. 1-3.52.1. of the Rules of the EPCHC]

C.5. The stationary compression ignition internal combustion engines (CI ICE) at the facility shall meet, at a minimum, the following specifications: [Rules 62-4.070(3) and 62-204.800, F.A.C.; and Permit Application Received January 16, 2012]

- A) The permittee shall maintain compliance, as applicable for each engine, with Attachment A of this permit - 40 CFR 60 Subpart IIII (Standards of Performance for Stationary Compression

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Ignition Internal Combustion Engines). Attachment A is an enforceable document that is part of this permit.

- B) The permittee shall maintain compliance, as applicable for each engine, with Attachment B of this permit - 40 CFR 63 Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). Attachment B is an enforceable document that is part of this permit.

C.6. Test each generator (Emission Unit No. 023) associated with the aggregate handling operation and screener/washing system for visible emissions (opacity) concurrent with the visible emission tests required by Specific Condition No. B.3. at the first instance that a ship is unloaded and the first instance that the screener/washing system is operated following issuance of this permit, and annually thereafter. The visible emissions test shall be performed at each engine discharge stack. Each test shall be at least 30 minutes in duration. All other emission units in this section must be tested on an annual basis pursuant to Permit No. 0571290-004-AC. [Rules 62-297.310(7)(a)1. and 4., F.A.C.]

C.7. Compliance with the emission limitation of Specific Condition No. C.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 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 62-297.310 and 62-297.310(4)(a)2., F.A.C.]

C.8. Testing of emissions shall be conducted with the source operating at capacity. Capacity is defined as 90-100% of the rated capacities stated in Specific Condition No. C.2. 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 rate 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. The test report shall include the maximum horsepower achieved during the compliance test. Failure to submit the actual operating conditions may invalidate the test. [Rules 62-4.070(3) and 62-297.310(2)(b), F.A.C.]

C.9. In order to demonstrate compliance with Specific Condition No. C.1., the permittee shall maintain a recordkeeping system for the most recent five year period as detailed below. The facility should also maintain daily records and make them available upon request to document operation on each date. 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 62-213.440(1)(b)2.b., F.A.C.]

- A) Month, Year
- B) Monthly hours of operation for each air compressor and generator
- C) Twelve month rolling total of B) above
- D) Records as required in Attachment A and B

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ENVIRONMENTAL PROTECTION COMMISSION
OF HILLSBOROUGH COUNTY

Richard D. Garrity, Ph.D.
Executive Director

P.E. Certification Statement

Permittee:

Titan America, LLC

Project Type: Air Construction

DRAFT Permit No.: 0571290-007-AC

Facility ID No.: 0571290

I HEREBY CERTIFY that the engineering features described in the above referenced application and subject to the proposed permit conditions provide reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-4 and 62-204 through 62-297. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including but not limited to the electrical, mechanical, structural, hydrological, and geological features).

(Seal)

Diana M. Lee, P.E.
Registration No.: 56082

Date

Permitting Authority:
Environmental Protection Commission
of Hillsborough County
Air Management Division
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Tampa, FL 33619
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