

## **FINAL DETERMINATION**

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### **PERMITTEE**

Kelly Folsom  
Environmental Manager  
Titan America, LLC  
455 Fairway Dr.  
Deerfield Beach, FL 33441

### **PERMITTING AUTHORITY**

Environmental Protection Commission of Hillsborough County  
3629 Queen Palm Dr.  
Tampa, Florida 33619

### **PROJECT**

Air Permit No. 0571290-016-AC  
Minor Air Construction Permit

This permit authorizes the installation of one new 266 HP diesel fuel fired air compressor. In addition, this permit reduces the operating hours of the diesel fuel fired engines and air compressors at the Terminal from 2,050 hours/year per engine to 2,000 hours/year per engine..

### **NOTICE AND PUBLICATION**

The EPCHC distributed a draft air construction permit package on August 26, 2016. The applicant published the Public Notice in the Tampa Bay Times on August 31, 2016. The EPCHC received the proof of publication on August 7, 2016. No requests for administrative hearings or requests for extensions of time to file a petition for administrative hearing were received.

### **COMMENTS**

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

### **CONCLUSION**

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

**COMMISSION**

Kevin Beckner      Lesley "Les" Miller, Jr.  
Victor D. Crist     Sandra L. Murman  
Ken Hagan          Stacy White  
Al Higginbotham



**EXECUTIVE DIRECTOR**  
Janet L. Dougherty

**DIVISION DIRECTORS**

Legal & Admin.      Richard Tschantz, Esq.  
Air Management     Jerry Campbell, P.E.  
Waste Management    Hooshang Boostani, P.E.  
Water Management    Sam Elrabi, P.E.  
Wetlands Management Kelly Bishop, P.G.

**PERMITTEE**

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

Air Permit No.0571290-016-AC  
Permit Expires: November 30, 2017

Authorized Representative:  
Kelly Folsom, Environmental Manager

Minor Air Construction Permit  
One Diesel Fuel Fired Air Compressor

**PROJECT**

This air construction permit authorizes the installation of one 266 HP Cummins, QSB 6.7, or equivalent diesel fuel fired air compressor. In addition, this permit reduces the operating hours of the diesel fuel fired engines and air compressors at the Terminal from 2,050 hours/year to 2,000 hours/year per engine. The proposed work will be conducted at the existing facility, which is a concrete raw materials terminal and aggregate 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.

This permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements); Section 3 (Emissions Unit Specific Conditions); and Section 4 (Appendices). Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit.

**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.

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](http://www.epchc.org)**

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**CERTIFICATE OF SERVICE**

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

Kelly Folsom - Titan America, LLC [kfolsom@titanamerica.com](mailto:kfolsom@titanamerica.com)  
Brad James, P.E. – Trinity Consultants [bjames@trinityconsultants.com](mailto:bjames@trinityconsultants.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.

 9/15/2016  
Clerk Date

## SECTION 1. GENERAL INFORMATION

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### FACILITY DESCRIPTION

Titan America, LLC is a concrete raw materials and aggregate handling facility. Concrete raw materials are received by ship, truck, and railcar and transferred into four main silos and/or two interstitial silos. When ready to be loaded out, material from the silos is loaded into trucks and railcars using two loading stations.

In addition, the facility operates an aggregate handling operation and a ship loading operation. The ship loading operation can take place at Hooker's Point Berth 219 or any other berth controlled by the Tampa Port Authority.

### PROPOSED PROJECT

This permit authorizes the installation of one new 266 HP Cummins, QSB 6.7, or equivalent diesel fuel fired air compressor. In addition, this permit reduces the operating hours of the diesel fuel fired engines and air compressors at the Terminal from 2,050 hours/year per engine to 2,000 hours/year per engine. The new 266 HP air compressor will be used to power a dry fogging system, which will be used as needed during the ship unloading operation.

Titan America, LLC is a concrete raw materials and aggregate handling facility. Concrete raw 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 concrete raw materials from the shiphold. At the top of the vertical screw auger, the concrete raw materials are transferred to a horizontal screw conveyor and then into the surge vessel. From the surge vessel, the concrete raw materials are pneumatically loaded into one of four charging vessels. Compressed air is used to pressurize the charging vessels. Once pressurized, the concrete raw materials are pneumatically transferred to the onshore filter/receiver, which directs material to four main silos and/or two interstitial silos.

The ship unloading system is powered by the 575 HP Caterpillar, Model No. 3306, diesel fuel fired electric generator and by the 1,280 HP Caterpillar, Model No. 3512, diesel fuel fired electric generator. The compressed air for the charging vessels is provided by the six 540 HP Sullair or equivalent air compressors. In addition, the new 266 HP Cummins, QSB 6.7, or equivalent air compressor will be used to power a dry fogging system, which will be used as needed when unloading concrete raw 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. Each generator and compressor is authorized to operate 2,000 hours/year.

When receiving material by truck and railcar, concrete raw 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

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## SECTION 1. GENERAL INFORMATION

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and truck's onboard pumps; using the new the 75 HP Deutz engine or equivalent; and/or using electrical powered compressors located in the silo structure. The 75 HP Deutz engine or equivalent is authorized to operate 2,000 hours/year.

This project will modify or add the following emission units:

EU No.	Description
009	One 575 HP Diesel Fuel Fired Generator
010	One 1,280 HP Diesel Fuel Fired Generator
026	One 75 HP Diesel Fuel Fired Engine
027	Six 540 HP Diesel Fuel Fired Air Compressors
028	One 266 HP Diesel Fuel Fired Air Compressor

### **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

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- 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. [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: The permittee shall notify the Compliance Authority upon commencement of construction. No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the EPCHC. 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.** Construction and Expiration: The expiration date shown on the first page of this permit provides time to complete the physical construction activities authorized by this permit, complete any necessary compliance testing, and obtain an operation permit. Notwithstanding this

## SECTION 2. ADMINISTRATIVE REQUIREMENTS

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expiration date, all specific emissions limitations and operating requirements established by this permit shall remain in effect until the facility or emissions unit is permanently shut down. For good cause, the permittee may request that that a permit be extended. Pursuant to Rule 62-4.080(3), F.A.C., such a request shall be submitted to the Permitting Authority in writing before the permit expires. [Rules 62-4.070(4), 62-4.080 & 62-210.300(1), F.A.C.]

**FW10. Application for a Non-Title V Operating Permit:** This permit authorizes construction of the permitted emissions unit(s) and initial operation to determine compliance with Department rules. A Non-Title V air operation permit is required for regular operation of the permitted emissions unit. The permittee shall apply for a Non-Title V air operation permit at least 90 days prior to expiration of this permit, but no later than 60 days after completion of testing of EU No. 028. To apply for a Non-Title V operation permit, the applicant shall submit the appropriate application form, the appropriate permitting fee, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the Environmental Protection Commission of Hillsborough County. [Rules 62-4.030 and 62-4.050, F.A.C.]

**FW11. 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](mailto:eaor@dep.state.fl.us).}*

**FW12.** 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.]

**FW13.** 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.]

**FW14.** 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

## SECTION 2. ADMINISTRATIVE REQUIREMENTS

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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.

**FW15.** 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.]

**FW16.** 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.]

**FW17.** 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**

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**A. EU Nos. 009, 010, 026, 027, and 028 - Engines**

This section of the permit addresses the following emissions units.

EU No.	Description
009	One 575 HP Diesel Fuel Fired Generator
010	One 1,280 HP Diesel Fuel Fired Generator
026	One 75 HP Diesel Fuel Fired Engine
027	Six 47540 HP Diesel Fuel Fired Air Compressors
028	One 266 HP Diesel Fuel Fired Air Compressor

**EQUIPMENT**

**A.1. Equipment Name:** The permittee is authorized to install and operate the following: [Rule 62-4.070(3), F.A.C. and Permit Application Received August 15, 2016]

- A) One 575 HP Caterpillar, Model No. 3306, engine
- B) One 1,280 HP Caterpillar, Model No. 3512, engine
- C) One 75 HP Deutz engine or equivalent
- D) Six 540 HP Sullair engine or equivalent
- E) One 266 HP Cummins, QSB 6.7, or equivalent air compressor.

**PERFORMANCE RESTRICTIONS**

**A.2. Authorized Fuel:** The equipment specified in Specific Condition No. A.1 above shall be fired on diesel fuel only. [Rules 62-4.070(3) and 62-210.200(Potential-to-Emit), F.A.C.; and Permit Application Received August 15, 2016]

**A.3. Hours of Operation:** The hours of operation for each engine listed in Specific Condition No. A.1. shall not exceed 2,000 hours per twelve consecutive month period. [Rule 62-4.070(3), F.A.C. and Permit Application Received August 15, 2016]

**EMISSIONS STANDARDS**

**A.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**

**A.5. Initial Compliance Tests:** In order to demonstrate compliance with Specific Condition No. A.4, test Emission Unit No. 028 for visible emissions the first time the engine is used. Submit two copies of the test data to the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of such testing. Testing procedures shall be consistent with the requirements of Rule 62-297.310, F.A.C. [Rules 62-4.070(3) and 62-297.310(8)(a) and (b)1, F.A.C. and Chapter 1-3.52.1., Rules of the EPC]

**SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS**

**A. EU Nos. 009, 010, 026, 027, and 028 - Engines**

**A.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 the engine as specified in Specific Condition No. A.1. 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.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.]

**A.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

The above methods are described in 40 CFR 60 and are 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**

**A.9.** In order to demonstrate that EU Nos. 009, 010, 026, 027, and 028 meet the definition of a nonroad engine and are exempt from 40 CFR 60 Subpart III 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. and Permit Application Received August 15, 2016]

**RECORDS AND REPORTS**

**A.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

### SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

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#### A. EU Nos. 009, 010, 026, 027, and 028 - Engines

each test run, the report shall clearly identify the equipment being tested. [Rule 62-297.310(10), F.A.C.]

**A.11.** The permittee shall maintain monthly records of operation in order to demonstrate compliance with Specific Condition Nos. A.1., A.2., A.4., and A.9. The records shall be maintained onsite for at least three years and shall be made available to any local, state, or federal air pollution agency. The records shall include, as a minimum, the following: [Rules 62-4.070(3) and 62-4.160(14)(b), F.A.C.]

- A) Month, Year
- B) Hours of operation of each engine
- C) Monthly and rolling consecutive 12-month totals of B) above
- D) Records as required by Specific Condition Nos. A.1.E) and A.9.

