

FINAL DETERMINATION

PERMITTEE

Titan America, LLC
455 Fairway Dr Suite 200
Deerfield Beach, FL 33441

PERMITTING AUTHORITY

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

PROJECT

Air Permit No. 0571290-020-AC
Minor Air Construction Permit
Titan America, LLC

This permit authorizes the replacement of the baghouses that control particulate matter emissions from the Surge and Charging Vessel Nos. 1 and 2 (EU Nos. 011 and 012). The new baghouses will be 3,000 DSCFM Donaldson, Model No. DLM V30/15F, baghouses, or equivalent.

NOTICE AND PUBLICATION

The EPCHC distributed a draft minor air construction permit package on October 25, 2018. The applicant published the Public Notice in the Tampa Bay Business Journal on November 2, 2018. The EPCHC received the proof of publication on November 6, 2018. 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

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PERMITTEE

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

Authorized Representative:
William Kissel, Senior Environmental Manager

Air Permit No. 0571290-020-AC
Expiration Date: December 30, 2019

Replacement of the Two Surge and Charging Vessels'
Baghouses
Hillsborough County, Florida

PROJECT

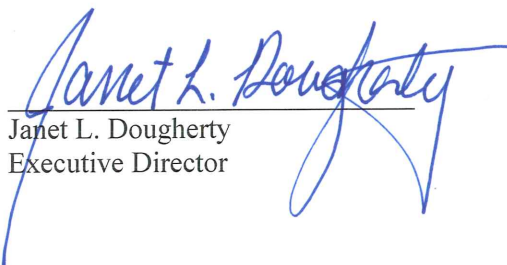
This is the Final air construction permit, which authorizes the replacement of the two baghouses that control particulate matter emissions from the surge and charge vessels (EU Nos. 011 and 012). The proposed work will be conducted at the existing facility, which is a bulk material handling facility categorized under Standard Industrial Classification No. 5032 – Brick, Stone & Related Construction Materials. The existing facility is located in Hillsborough County at 4219 Maritime Blvd., Tampa, Florida 33605. The UTM coordinates are Zone 17, 359.94 km East, and 3087.81 km North.

STATEMENT OF BASIS

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

Upon issuance of this final permit, any party to this 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 Legal Department of the EPC at 3629 Queen Palm Drive, Tampa, Florida 33619, Phone 813-627-2600, Fax 813-627-2602 and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within 30 days after this order is filed with the clerk of the EPCHC.

Executed in Tampa, Florida


Janet L. Dougherty
Executive Director

Environmental Excellence in a Changing World

Roger P. Stewart Center

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

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CERTIFICATE OF SERVICE

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Sahand Nasseri 11/19/18
Clerk Date

SECTION 2. ADMINISTRATIVE REQUIREMENTS

FACILITY DESCRIPTION

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

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

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

The particulate matter emissions from the loading of the surge vessel by the screw conveyor system and from the pneumatic loading of the charging vessels (EU Nos. 011 and 012), will be controlled using two 3,000 DSCFM Donaldson, Model No. DLM V30/15F, baghouses, or equivalent. The PM emissions from the onshore filter/receiver are controlled by the 25,000 DSCFM Schmidt, Model No. 398FR12(6), jet pulse baghouse. In addition, the PM emissions from the interstitial silos are controlled by each silo's 1,790 DSCFM Schmidt Airtech, Model No. 48DS8FM, jet pulse baghouse (EU Nos. 006 and 007).

This project will modify the following emissions units.

EU No.	Emission Unit Description
011	Surge and Charging Vessels Baghouse No. 1
012	Surge and Charging Vessels Baghouse No. 2

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

- FW.1. Materials Limitation:** When used in this permit the term Concrete Raw Materials is defined as Portland Cement Types I, II, III, IV, V, white cement, masonry cement, flyash, slag cement, natural and synthetic gypsum, lime, cement kiln dust, natural pozzolana, and artificially produced pozzolana materials. The facility may also handle bauxite through the pneumatic concrete raw materials handling system and the pneumatic ship loading system. [Rule 62-4.070(3), F.A.C. and Permit Nos. 0571209-009-AC and 0571290-017-AC]
- FW.2. 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.
- FW.3. 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.
- FW.4. 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).
- FW.5. 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.
- FW.6. 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.]
- FW.7. 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.]
- FW.8. 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 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 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(3) and (4), 62-4.080 & 62-210.300(1), F.A.C.]
- FW.9. Application for Air Operating Permit:** Subsequent to any construction, reconstruction or modification of a facility or emissions unit authorized by an air construction permit, and demonstration of compliance with the conditions of such air construction permit, the owner or operator of such facility or emissions unit shall obtain an initial air operation permit or revision of an existing air operation permit, whichever is appropriate, in accordance with all applicable provisions of this chapter and Chapter 62-4, F.A.C. **The operating permit application shall be submitted within 90 days of completion of testing of each new dust collector associated with EU Nos. 011 and 012, or at least 90 days prior to the expiration date of this permit, whichever occurs first.** [Rules 62-4.070(3) and 62-210.300(2), F.A.C.]
- FW.10. 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

SECTION 2. ADMINISTRATIVE REQUIREMENTS

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}

- FW.11. Special Compliance Tests:** 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 shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit, unless the EPCHC obtains other information sufficient to demonstrate compliance. The owner or operator of the emissions unit shall provide a report on the results of said tests to the EPC in accordance with the provisions of subsection 62-297.310(10), F.A.C. [Rule 62-297.310(8)(c), F.A.C.]
- FW.12. Baghouse Pressure Drop Monitoring:** Each baghouse shall have a device capable of monitoring the pressure differential across the baghouse. The monitoring device shall be maintained in working order and shall be calibrated and adjusted to indicate the true value of the pressure drop with sufficient accuracy to allow the pressure drop to be determined within 10% of its true value. [Rules 62-4.070(3) and 62-297.310(6)(a) and (b), F.A.C. and Permit No. 0571209-009-AC]
- FW.13. Baghouse Maintenance:** The baghouses controlling the sources under this permit shall be kept in good repair. [Rule 62-4.070(3), F.A.C. and Permit No. 0571209-009-AC]
- FW.14. Circumvention:** No person shall circumvent any air pollution control device, or allow the emission of air pollutants without the applicable air pollution control device operating properly. [Rule 62-210.650, F.A.C.]
- FW.15. Unconfined Emissions of Particulate Matter:** All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Rule 62-296.320, F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling. Reasonable precautions shall include, but not be 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.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

FW.16. Objectionable Odor: 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.]

FW.17. Transfer of Permit: If the permittee wishes to transfer this permit to another owner, an "Application for Transfer of 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.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU Nos. 011 and 012 – Surge and Charging Vessels Nos. 1 and 2

This section of the permit addresses the following emissions units.

EU No.	Emission Unit Description
011	Surge and Charging Vessel Baghouse No. 1
012	Surge and Charging Vessel Baghouse No. 2

EQUIPMENT

A.1. Equipment Name: The permittee is authorized to install two 3,000 DSCFM Donaldson, Model No. DLM V30/15F, baghouses, or equivalent. [Application No. 0571290-020-AC]

PERFORMANCE RESTRICTIONS

A.2. Permitted Capacity: The following limitations shall apply: [Rules 62-4.070(3) and 62-210.200(PTE), F.A.C. and Permit No. 0571290-013-AC]

- A) The maximum throughput of concrete raw materials and bauxite shall not exceed 750,000 tons per any twelve consecutive month period.
- B) Each emission unit is authorized to operate continuously (8,760 hours/year).

EMISSIONS STANDARDS

A.3. Emissions Standards: The maximum potential and allowable particulate matter emissions shall not exceed the following per any twelve consecutive month period: [Rule 62-296.711(2)(b), F.A.C. and Application No. 0571290-020-AC]

EU No.	DSCFM	Potential Emissions (Tons/yr)	Allowable Emissions
011	3,000	3.4	0.03 grains/dscf
012	3,000	3.4	0.03 grains/dscf

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

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

A.5. Emissions Standards: The permittee shall not cause, permit, or allow any visible emissions (5% opacity) from Emission Unit Nos. 011 and 012. [Rule 62-296.711(2)(a), F.A.C. and Ch. 1-3.52(2) Rules of the EPCHC]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU Nos. 011 and 012 – Surge and Charging Vessels Nos. 1 and 2

TESTING REQUIREMENTS

- A.6. Initial Compliance Test:** Test each emission unit for visible emissions within 60 days of startup and annually thereafter, to demonstrate compliance with the opacity standard. Each VE test shall be a minimum of 30 minutes in duration and as specified in Specific Condition No. A.8. Submit the test data to the Air Management Division of the Environmental Protection Commission of Hillsborough County within forty-five days of such testing. Testing procedures shall be consistent with the requirements of Rule 62-297.310, F.A.C. [Rule 62-297.310(8)(a)3., F.A.C. and Ch. 1-3.52(3), Rules of the EPCHC]
- A.7. Initial Visible Emissions Test (Bauxite):** In addition to the testing specified in Specific Condition No. A.6., test each emissions unit for visible emissions when handling bauxite for the first time. Each VE test shall be a minimum of 30 minutes in duration and as specified in Specific Condition No. A.8. Submit the test data to the Air Management Division of the Environmental Protection Commission of Hillsborough County within forty-five days of such testing. Testing procedures shall be consistent with the requirements of Rule 62-297.310, F.A.C. [Rules 62-4.070(3) and 62-297.310(8)(b)1, F.A.C.]
- A.8. Testing Capacity:** Testing of emissions shall be conducted with the source operating at capacity and as follows. 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) Capacity is defined as 90-100% of the rated capacity of 881 TPH for the ship unloading transfer rate into the filter/receiver and 440 TPH for the ship unloading transfer rate into each interstitial silo.
 - B) The test shall be representative of the operating conditions during the year, however, the maximum operation is while all four unloading lines are in operation.
 - C) Test the surge vessel and four charging vessels at their respective baghouses' exhaust stacks.
- A.9. Test Requirements:** At least 15 days prior to the date on which each required emissions test is to begin, the owner or operator shall notify the air compliance program identified by permit, unless shorter notice is agreed to by the appropriate air compliance program. 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. [Rule 62-297.310(9), F.A.C. Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(9), F.A.C.]
- A.10. Test Methods:** Required tests shall be performed in accordance with the following reference methods:

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

The above methods are described in Appendix A of 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 EPCHC. [Rule 62-204.800, F.A.C.; and Appendix A of 40 CFR 60]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU Nos. 011 and 012 – Surge and Charging Vessels Nos. 1 and 2

RECORDS AND REPORTS

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

- A) The emission unit number
- B) The unloading rate (tons/hour)
- C) The baghouse pressure drop
- D) The number of unloading lines in operation during the test

A.12. Records: In order to demonstrate compliance with Specific Condition No. A.2., the permittee shall maintain a monthly recordkeeping system for the most recent three year period. However, the facility should maintain daily records and make them available upon request. The records shall be made available to the Environmental Protection Commission of Hillsborough County, state or federal air pollution agency upon request. The records shall include, but not limited to, the following: [Rules 62-4.070(3) and 62-4.160(14)(b), F.A.C.]

- A) Month, Year
- B) Amount and type of material unloaded (tons)
- C) Hours of operation of each Emission Unit
- D) Twelve month rolling total of B) and C) above

