FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

RICK SCOTT
GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

FINAL PERMIT

PERMITTEE

ParexUSA, Inc.
2501 Highway 544
Haines City, FL 33845

Authorized Representative:
Mr. Bill Olsen, Regional Manager

Air Permit No. 1050386-007-AC
Permit Expires: 12/31/2015
Site Name : ParexUSA – Haines City
Minor Air Construction Permit
Project Name: Add a new sand dryer

This is the final air construction permit to add a new fluidized-bed sand dryer at a tile grout blending facility. The proposed work will be conducted at the ParexUSA - Haines City plant (Standard Industrial Classification No. 3272). The facility is located in Polk County at 2501 Highway 544 in Haines City, Florida. The UTM coordinates are Zone 17, 440.39 km East, and 3106.34 km North. As noted in the Final Determination provided with this final permit, no changes or only minor changes and clarifications were made to the draft permit.

This final permit is organized by the following sections:

Section 1. General Information

Section 2. Administrative Requirements

Section 3. Emissions Unit Specific Conditions

Section 4. Appendices

Due to 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.

This air pollution 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 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 30 days after this order is filed with the clerk of the Department.

Executed in Hillsborough County, Florida

Kelley M. Boatwright 09/23/2013

Kelley M. Boatwright — Effective Date
District Air Program Administrator
Southwest District

CERTIFICATE OF SERVICE

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

Mr. Bill Olsen, Regional Manager (bill.olsen@parexusa.com)

Mr. Tom Shufflebarger, Plant Manager (tom.shufflebarger@parexusa.com)

Mr. Dean H. Myers, P.E. (deanhmyers@earthlink.com)

Mr. Erin DiBacco, Compliance Assurance Program Manager (erin.dibacco@dep.state.fl.us)

Clerk Stamp

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.

Rhonda Hughes 9/23/2013

(Clerk) (Date)

FACILITY AND PROJECT DESCRIPTION

Existing Facility

This is a tile grout blending facility. The facility blends cements, lime, sands and other earth materials to package custom blends of decorative tile grouts. The existing facility consists of the following emissions units (EUs).

Facility ID No. 1050386

EU ID No.	Emissions Unit Description
001	Raw Material Storage Bin 01
002	Raw Material Storage Bin 02
003	Raw Material Storage Bin 03
004	Raw Material Storage Bin 04
005	Raw Material Storage Bin 05
006	Raw Material Storage Bin 06
007	Raw Material Storage Bin 07
008	Raw Material Storage Bin 08
009	Raw Material Storage Bin 09
010	Mixing and Bagging Line 1 with dust collector
011	Mixing and Bagging Line 2 with dust collector

Project Description and Affected/Proposed Emission Unit

This permit will add a new fluidized-bed sand dryer with an associated dust collector.

EU ID No.	Emissions Unit Description
012	Sand Dryer

NOTE: *Please reference the Permit No., Facility ID, and Emission Unit ID in all correspondence, test report submittals, applications, etc.*

FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of hazardous air pollutants (HAPs).
- The facility has no 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.
- This facility is a synthetic non-Title V source for the pollutant particulate matter less than 10 microns (PM_{10}). The restriction on raw material throughput in the permit and the use of dust collectors to control PM emissions will ensure that PM_{10} emissions will be below the threshold for a Title V source.

PERMIT HISTORY/AFFECTED PERMITS

This permit modifies current Operation Permit No. 1050386-006-AO.

ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority - The permitting authority for this project is the Florida Department of Environmental Protection (Department), Southwest District Office's Air Permitting Program. The mailing address and phone number is:

Florida Department of Environmental Protection
Southwest District Office
Air Permitting Program
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813-470-5700

All documents related to applications for permits shall be submitted to the above address.

2. Compliance Authority - The compliance authority for this project is the Florida Department of Environmental Protection (Department), Southwest District Office's Compliance Assurance Program. The mailing address and phone number is:

Florida Department of Environmental Protection
Southwest District Office
Compliance Assurance Program
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813-470-5700

All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the above address.

3. Appendices - The following Appendices are attached as part of this permit:

a. Appendix A. Citation Formats and Glossary of Common Terms;
b. Appendix B. General Conditions;
c. Appendix C. Common Conditions;
d. Appendix D. Common Testing Requirements;
e. Appendix E. NSPS Subpart A; and
f. Appendix F. NSPS Subpart UUU

4. 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.

5. New or Additional Conditions - For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time.
[Rule 62-4.080, F.A.C.]

6. Modifications - Unless otherwise exempt by rule, the permittee shall not initiate any construction, reconstruction, or modification at the facility and shall not install/modify any pollution control device at the facility without obtaining prior authorization from the Department. Modification is defined as: Any physical change or changes in the method of operations or addition to a facility that would result in an increase in the actual emissions of any air pollutant subject to air regulations, including any not previously emitted, from any emission unit or facility.
[Rules 62-210.200 - Definition of "Modification" and 62-210.300(1)(a), F.A.C.]

7. Annual Operating Report - On or before **April 1** of each year, the permittee shall submit a completed DEP Form 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility" (AOR) for the preceding calendar year. The report may be submitted electronically in accordance with the instructions received with the AOR package sent by the Department, or a hardcopy may be sent to the Compliance Authority.
[Rule 62-210.370(3), F.A.C.]

8. Application for Non-Title V Air Operation Permit - This permit authorizes construction of a permitted emissions unit and initial operation to determine compliance with Department rules. A Non-Title V air operation permit is required for continued 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 180 days after commencing operation. Commencing operation means setting into operation of any emissions unit for any purpose. To apply for a Non-Title V air operation permit, the applicant shall submit the following:

a. the appropriate permit application form *(see current version of Rule 62-210.900, F.A.C. (Forms and Instructions), and/or FDEP Division of Air Resource Management website at: http://www.dep.state.fl.us/air/)*;

b. the appropriate operation permit application fee from Rule 62-4.050(4)(a), F.A.C.;

c. a copy of the initial compliance test report required by Specific Condition No. A.13., if not previously submitted; and

d. copies of the most recent month of records/logs specified in Specific Condition No. A.15.

The application shall be submitted to the Permitting Authority.

[Rules 62-4.030, 62-4.050 and 62-4.220 F.A.C.]

A. EU No. 012 – Sand Dryer

This section of the permit addresses the following emissions unit (EU).

EU ID No.	Emissions Unit Description
012	Sand Dryer – The fluidized-bed sand dryer is to process a maximum of 60,000 tons per year of dry sand. The design throughput rate of the dryer is 30 tons/hr of dry sand. The maximum heat input rate to the dryer is 7.0 MMBtu/hr using only natural gas for firing in the dryer. A dust collector model No. STJ-2311-10 WIP HI-1, with a design airflow of 10, 300 ACFM, is used to control particulate matter emissions. The dust collector has an efficiency of 99.9%.

PERFORMANCE RESTRICTIONS

A.1. Federal Regulatory Requirements - This emission unit is subject to 40 CFR 60, Subpart UUU – Standards of Performance for Calciners and Dryers in Mineral Industries and 40 CFR 60, Subpart A – General Provisions, which are adopted by reference in Rule 62-204.800, F.A.C.
[Rule 62-204.800(8)(b), F.A.C.]

A.2. Permitted Capacity - The fluidized-bed sand dryer shall not exceed the limits listed in the table below:

Description	Operation Limit
Maximum Heat Input Rate (daily average)	7.0 MMBtu/hr.
Maximum production output rate	30.0 tons/hr*
Maximum production output rate (yearly average)	60,000 tons per most recent 12 consecutive month period

* For testing purposes only
[Rule 62-210.200 (definition of Potential to Emit) F.A.C.; Permit Application dated 7/31/2013]

A.3. Authorized Fuel – The fluidized-bed sand dryer shall be fired with natural gas only.
[Rule 62-210.200(definition of Potential to Emit), F.A.C.; Permit Application dated 7/31/2013]

A.4. Restricted Operation - The hours of operation are not limited (8,760 hours per year).
[Rules 62-4.070(3) and 62-210.200 (definition of Potential to Emit), F.A.C.; Permit Application dated 7/31/2013]

EMISSIONS STANDARDS

A.5. Particulate Matter Emissions Standard: Particulate matter emissions from the Fluidized-Bed Sand Dryer shall not exceed 0.057 grams/dscm (0.025 grains/dscf).
[40 CFR 60.732; Permit Application dated 7/31/2013]

A.6. Visible Emissions (VE) – Visible emissions from the fluidized-bed sand dryer dust collector shall not exceed 10% opacity.
[40 CFR 60.732(b)]

COMPLIANCE TESTING REQUIREMENTS

A.7. Initial Compliance Tests - The emissions unit shall be tested to demonstrate initial compliance with the emissions standards for Particulate Matter (PM) and Visible Emissions (VE). The initial tests shall be conducted no later than 60 days after initial operation of the unit.
[Rules 62-4.070(3) and 62-297.310(7)(a)1., F.A.C.]

A.8. Compliance Tests After Initial Testing –

a. Particulate Matter - Compliance tests shall be conducted on the fluidized-bed sand dryer dust collector once every 5 years. The tests shall occur during the 12-month period prior to submitting the air operation permit renewal application to demonstrate compliance with the particulate matter emissions limits of this emissions unit.

b. Visible Emissions - During each federal fiscal year (October 1st to September 30th), the fluidized-bed sand dryer dust collector shall be tested to demonstrate compliance with the emissions standards for visible emissions. If visible emissions and the particulate matter compliance testing are both required in the same federal fiscal year, then the visible emissions testing shall be conducted concurrently with particulate matter testing.

[Rule 62-297.310(7)(a)3., 4., and 5., F.A.C.]

A.9. Compliance Test Requirements - Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. Emissions testing shall be conducted between 90 to 100 percent of the sand dryer's design throughput rate. The sand dryer has a design throughput rate of 30 tons per hour of dry sand.
[Rule 62-297.310, F.A.C.]

A.10. Compliance Test Method - Required tests shall be performed in accordance with the following reference method.

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

The above method is described in Appendix A of 40 CFR 60 and is adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.

[Rules 62-204.800 and 62-297.100, F.A.C.; and Appendix A of 40 CFR 60]

MONITORING REQUIREMENTS

{Permitting Note: The fluidized-bed sand dryer is equipped with a dry control device and is therefore exempt from the monitoring requirements of 40 CFR 60.734.}

NOTIFICATION REQUIREMENTS

A.11. Test Notification - The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. The notification must include the following information: the date, time, and location of each test; the name and telephone number of the facility's contact person who will be responsible for coordinating the test; and the name, company, and the telephone number of the person conducting the test.

(*Permitting Note: The notification should also include the relevant emission unit ID No(s)., test method(s) to be used, and pollutants to be tested.*)

[Rules 62-4.070(3) and 62-297.310(7)(a)9., F.A.C.]

A.12. Notification of Operation Commencement - The permittee shall notify the Compliance Authority in writing of the date of commencing operation of the EU No. 012 after completing the constructions authorized by this permit, no later than fifteen (15) days after that date. Commencing operation means setting into operation of any emissions unit for any purpose.
[Rules 62-4.070, and 62-210.200, F.A.C., (definition of Commence Operation)]

RECORDKEEPING AND REPORTING REQUIREMENTS

A.13. Compliance 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. Additionally, the following information (where applicable) from the test period shall be submitted:

a. Fluidized-bed sand dryer throughput rate (Tons/hr of dry sand);

b. Dryer heat input rate, MMBtu/hr;

c. Type of fuel (natural gas) used to fire the dryer during testing;

d. a copy of the record specified in the Specific Condition No. A.14 for the month the test was conducted; and

e. Average pressure drops across the dust collector (in inches of water) during each test run.

[Rules 62-4.070(3) and 62-297.310(8), F.A.C.; Permit Application dated 7/31/2013]

A.14. Daily Recordkeeping: The permittee shall maintain daily records to document compliance with the limitations of Specific Condition Nos. A.2., and A.3. The records shall include, but are not limited to, the following:

a. Facility Name, Facility Number, Emission Unit No. (EU-001), Date;

b. Fluidized-bed Sand Dryer hours of operation;

c. Type of fuel used to fire the Dryer;

d. Quantity of fuel used to fire the Dryer (in SCF for natural gas);

e. Calculated daily average heat rate input (MMBtu/hr.);

f. Pressure drop across baghouse (in inches of water) during normal operation;

Records shall be recorded in a permanent form suitable for inspection by the Department upon request, and shall be retained at the facility for at least a three-year period. Daily records shall be completed within three (3) business days.

{Permitting Note: "Daily Average" is defined for item A.14.e.: the total dryer heat input (MMBtu) in a day, divided by the hours of operation for that day.}

[Rule 62-4.070(3), F.A.C.; Permit Application dated 7/31/2013]

A.15. Monthly Recordkeeping Requirements - In order to demonstrate compliance with Specific Condition No. A.2., the permittee shall keep the following monthly records:

a. Facility Name, Facility ID, Emission Unit No., month, year;

b. total quantity of silica sand loaded into the fluidized-bed sand dryer for the month, in tons; and

c. total quantity silica sand loaded into the fluidized-bed sand dryer for the most recent 12 month consecutive period, in tons.

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