



TECHNICAL EVALUATION

APPLICANT

Florida Rock Industries, Inc.
400 Keuka Road
Interlachen, Florida

Facility ID No. 1070007

PROJECT

Project No. 1070007-006-AO
Non-Title V Application
Renewal

COUNTY

Putnam

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Northeast District Office
Waste and Air Resource Management
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256

COMPLIANCE AUTHORITY

Florida Department of Environmental Protection
Northeast District Office
Compliance Assurance
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256

December 17, 2014

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1. GENERAL PROJECT INFORMATION

Air Pollution Regulations

Projects at stationary sources with the potential to emit air pollution are subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The statutes authorize the Department of Environmental Protection (Department) to establish regulations regarding air quality as part of the Florida Administrative Code (F.A.C.), which includes the following chapters:

Table 1 - Applicable Rules from the F.A.C.

Chapter	Description
62-4	Permits
62-204	Air Pollution Control – General Provisions
62-210	Stationary Sources of Air Pollution – General Requirements
62-212	Stationary Sources – Preconstruction Review
62-296	Stationary Sources – Emission Standards
62-297	Stationary Sources – Emissions Monitoring

In addition, the U. S. Environmental Protection Agency (EPA) establishes air quality regulations in Title 40 of the Code of Federal Regulations (CFR). Part 60 specifies New Source Performance Standards (NSPS) for numerous industrial activities. Part 61 specifies National Emission Standards for Hazardous Air Pollutants (NESHAP) based on specific pollutants. Part 63 specifies NESHAP based on the Maximum Achievable Control Technology (MACT) for numerous industrial categories.

Federal regulations adopted by reference are given in Rule 62-204.800, F.A.C. State regulations approved by EPA are given in 40 CFR 52, Subpart K – Florida, also known as the State Implementation Plan (SIP) for Florida.

Glossary of Common Terms

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of this permit.

Facility Process Description and Location

The existing facility Keuka Sand Mine is a Sand Mining Operation (Standard Industrial Classification No. 1442). The facility is located in Putnam County at 400 Keuka Road in Interlachen, Florida. The UTM coordinates are Zone 17, 411.3 km East, and 3274.25 km North.

This facility mines and processes ore reserves comprised of silica. The existing facility consists of the following emission unit and emission point:

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ID No.	Emission Unit Description
001	Sand Dryer with Venturi-Rod Scrubber

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Sand Dryer (EU001). Florida Rock Industries, Inc. operates a Starnell Fluid Bed Sand Dryer equipped with a Venturi-Rod Scrubber to control particulate matter emissions. The sand dryer is powered by an Elster Hauck WRO 575 oil fired burner.

Wet sand from stock piles in the construction sand plant is fed into feed bins for processing in the industrial sand plant. Once processed the wet sand volume is measured with loader scales as it is placed into the hopper of the fluid bed sand dryer. Dried sand from the sand dryer is deposited into storage silos. The height of the dried sand in the silos is measured using a measuring tape by a plant operator who drops the tape measure into the silo and measures the change in depth of the product by foot about every hour. This method allows for the calculation of the production rate based upon the volume of dried product that accumulates in the silo over time. The tonnage of sand is determined based on the density of the material and its volume. A reference table is set up for the plant to use as a means of determining the tonnage of dried sand based upon product height in the silos. Once dried, the product goes into a screen house and then to storage silos for load out.

Facility Regulatory Categories

- 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.
- The facility **is not** a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility **is not** a major stationary source in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Processing Schedule

12/15/14 Department received the Application for Non-Title V Air Permit Renewal

Glossary of Common Terms

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of the draft permit distributed with this evaluation.

2. APPLICATION REVIEW

The air pollutant emissions from the facility are: Particulate Matter (PM), Sulfur Dioxide (SO₂), Nitrogen Oxide (NO₂) Carbon Monoxide (CO) and VOC.

This facility is considered a natural minor facility based on the information provided in the application.

Project Description

Air Operation Permit Renewal for the existing Keuka Sand Mine.