Florida Department of Environmental Protection

Northeast District
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

PERMITTEE

Edgar Minerals, Inc.
651 Keuka Road
Hawthorne, Florida 32640

Authorized Representative:
Dawn Barber, EHS Manager

Air Permit No. 1070001-023-AC
Permit Expires: August 23, 2018
Minor Air Construction Permit

Edgar Mine
Rotary Sand Dryer

PROJECT

This is the final air construction permit, which authorizes an increase in operation hours for the No. 1 Rotary Sand Dryer (EU004) from 2000 hours per year to 3120 hours per year. The proposed work will be conducted at the Edgar Mine, which is an industrial sand and kaolin clay mining facility categorized under Standard Industrial Classification Nos. 1442, 1446 & 1445. The facility is located in Putnam County at 651 Keuka Road in Hawthorne, Florida. The UTM coordinates are Zone 17, 407.7 km East and 3274.1 km North.

This final 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.

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 Jacksonville, Florida

Julie R. Hudson

Julie R. Hudson
Environmental Manager
Permitting Program

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Air Permit package 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 following persons.

Dawn Barber, Edgar Minerals, Inc., dbarber@edgarminerals.com
Bert Heimer, Bert Heimer PE LLC, bertheimer@gmail.com

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.

Merilee L. Palcic
Clerk

August 23, 2017
Date

FACILITY DESCRIPTION

The existing facility consists of the following emissions units.

Facility ID No. 1070001	
ID No.	**Emission Unit Description**
001	No. 2 Sand Dryer with dry cyclone
002	Raymond Mill
003	Clay Dryer
004	No.1 Rotary Sand Dryer with wet cyclone

PROPOSED PROJECT

The purpose of this project is to authorize an increase in operation hours for the No. 1 Rotary Sand Dryer (EU004) from 2000 hours per year to 3120 hours per year.

No.1 Rotary Sand Dryer (EU004). The moist sand feedstock is fed to the No.1 sand dryer feed hopper by a front end loader. The moist sand feedstock is transferred from the feed hopper to the dryer by a conveyor belt where the raw material moisture content is reduced from approximately 5.0 to 0.5 percent. The dried sand product is then transfer by a bucket elevator to two vibrating screens for sizing. The screened product next flows to the primary storage bin. From the primary storage bin, the product is either loaded directly into railcars/trucks or transferred to secondary screening.

This project will modify the following emissions units.

Facility ID No. 1070001	
ID No.	**Emission Unit Description**
004	No.1 Rotary Sand Dryer with wet cyclone

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

1. Permitting Authority: The permitting authority for this project is the Northeast District Office of the Florida Department of Environmental Protection (Department). The Northeast District Office's mailing address is 8800 Baymeadows Way West, Suite 100, Jacksonville, Florida 32256.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Northeast District Office at: 8800 Baymeadows Way West, Suite 100, Jacksonville, Florida 32256.
3. 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).
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: 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 Department. 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.]
7. 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) & (4), 62-4.080 & 62-210.300(1), F.A.C.]
8. 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. [Rule 62-210.300(2), F.A.C.]

B. EU Group Description

This section of the permit addresses the following emissions unit.

EU No.	Emission Unit Description
004	No.1 Rotary Sand Dryer with wet cyclone

{No. 1 Rotary sand dryer with wet cyclone with a stack height of 40 feet and volumetric flow rate of 15,757 actual cubic feet per minute (acfm) for stack emissions control and a 10,000 acfm baghouse for fugitive dust control.}

PERFORMANCE RESTRICTIONS

1. Permitted Capacity: The maximum Sand Throughput Rate is 130 tons/hour and the maximum heat input rate is 40 MMBtu/hour. [Rule 62-4.160(2), F.A.C., Rule 62-210.200(PTE), F.A.C., Application No. 1070001-0xx-AC]

2. Authorized Fuel: The unit is authorized to fire only natural gas. [Rule 62-4.160(2), F.A.C., Rule 62-210.200(PTE), F.A.C., Application No. 1070001-0xx-AC]

3. Restricted Operation: The hours of operation are limited to 3120 hours per year. [Rules 62-4.070(3) and 62-210.200(PTE), F.A.C., Application No. 1070001-0xx-AC]

EMISSIONS STANDARDS

4. Emissions Standards: The maximum allowable PM emissions rates are 10.0 lbs/hour (10.0 tons/year) [Application No. 1070001-0xx-AC and Permit No.1070001-013-AC]

TESTING REQUIREMENTS

5. PM Compliance Test Frequency: After the Initial Compliance Test, the owner or operator shall conduct a performance test to demonstrate compliance with the PM emissions limit at least once every 5 years prior to permit renewal. [Rule 62-297.310(8)(a)5, F.A.C., Permit No.1070001-013-AC, and Application No. 1070001-0xx-AC]

6. Test Requirements: The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. 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.]

7. Test Methods: Required tests shall be performed in accordance with the following reference methods.

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5	Method for Determining Particulate Matter Emissions

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

MONITORING REQUIREMENTS

8. Wet Cyclone Pressure Drop Monitoring Requirements: The pressure switch, located in the water supply line ahead of the water sprays in the spray section of the feed duct to the cyclone dust collector, shall be maintained such that the main stack exhaust fan, dryer, and dryer feed conveyor will immediately shutdown in the event the water pressure drop below 20 psi (the minimum operating level). [Permit No. 1070001-005-AO]

9. Operation and Maintenance (O&M) Plan: The facility shall develop and implement an operation and maintenance (O&M) plan to minimize the PM emissions from the regulated emissions points and the facility wide fugitive PM emissions. These procedures shall include the followings:
   a. Daily inspections of all process equipment and the emissions control system to identify any equipment leaks or malfunctions during the days when operating.
   b. Conduct repair/corrective action as soon as possible once the leaks or malfunctions are identified.
   c. Daily monitoring of the pressure drop for each control unit system during the days when operating. The control unit's pressure drop shall be operated in the range of manufacturer's recommendation. The pressure drop shall be recorded on a daily basis during the days when operating.
   d. Daily inspection on the stack visible emissions from each dryers and baghouses during the day when operating. If an unusual high visible emission (compare to normal) is observed, the operator shall evaluate the process equipment and the control unit (if any) in order to conduct corrective action to bring the visible emissions back to normal.
   e. Watering, or an equivalent method, shall be implemented, for facility unpaved roads, on an as needed basis, to reduce fugitive PM emissions due to truck traffic.

   Upon the Department's request, the facility shall revise the O&M plan to make necessary changes to reduce fugitive PM emissions. The revision of the O&M plan does not require permit revision. The plan (with the latest revision) shall be kept on site at all times.
   [Permit No.1070001-013-AC]

RECORDS AND REPORTS

10. Recordkeeping: The owner or operator shall maintain the following records onsite for at least 3 years.
    a. Monthly hours of operation. The latest monthly record shall be added to the hours of operation from previous 11 consecutive months to obtain hours of operation for 12-consecutive months.
    b. All the test reports.
    c. A copy of O & M plan.
    d. Inspections (pressure drop, opacity reading, leaks, and etc.) and corrective actions records.
    [Rule 62-4.030 and 62-4.160 (14)(b), F.A.C. Permit No.1070001-013-AC]

11. Test Reports. The owner and operator shall comply with the following reporting requirements.
    (a) The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test.
    (b) The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed.
    (c) The test report shall provide sufficient detail about the emissions unit tested and the test procedures used according to the requirements of F.A.C. Rule 62-297.310 (10)(c).
    [Rule 62-297.310(10), F.A.C]