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

RICK SCOTT
GOVERNOR

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SECRETARY

FINAL PERMIT

PERMITTEE

Lhoist North America of Alabama
750 Old Hickory Blvd., Suite 2-200
Brentwood, Tennessee 37027

Authorized Representative:
Mr. Jim Ruddell, Regional Environmental Manager

Air Permit No. 0530364-005-AF
Permit Expires: 05/30/2018
Site Name : Brooksville Plant
Federally Enforceable State Operation Permit (FESOP)
Project Name: FESOP Renewal

This is the final permit to renew Federally Enforceable State Operation Permit No. 0530364-004-AF for a lime hydration facility at the Lhoist North America of Alabama, Brooksville Plant (Standard Industrial Classification No. 3274). The facility is located in Hernando County at 10245 Cement Plant Road in Brooksville, Florida. The UTM coordinates are Zone 17, 359.5 km East, and 3162.9 km North.
This final permit is organized by the following sections:

Section 1. General Information

Section 2. Administrative Requirements and Facility-wide Specific Conditions

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.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of final permit. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of final permit, whichever occurs first. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

All petitions filed under these rules shall contain:

(a) The name and address of each agency affected and each agency's file or identification number, if known;

(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
(c) A statement of when and how the petitioner received notice of the agency decision;
(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
(e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action;
(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301 of the Florida Administrative Code.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation is not available in this proceeding.

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, 3900 Commonwealth Boulevard, Mail Station #35, 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 thirty days after this order is filed with the clerk of the Department.

Executed in Hillsborough County, Florida

_____ _____

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 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.

Jim Ruddell, Lhoist North America (jim.ruddell@lhoist.com)

Hanspeter Dietiker, Lhoist North America (hanspeter.dietiker@lhoist.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.

_____

(Clerk) (Date)

FACILITY AND PROJECT DESCRIPTION

Existing Facility

This facility produces hydrated lime from quicklime by mixing and reacting quicklime [CaO] with water in the lime hydrator operation to produce hydrated lime [$Ca(OH)_2$]. The hydrated lime produced at this facility is either loaded into product bags or loaded directly onto trucks. The existing facility consists of the following emissions units (EUs).

Facility ID No. 0530364

EU ID No.	Emission Unit Description
001	Quicklime Receiving and Storage Silos
002	Lime Hydrator Operation
003	Lime Bagging Operation
004	Bulk Truck Loadout

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 - PM10. The emission limitations, restriction on hours of operation, and restriction on the amount of material processed in this permit will ensure that the facility's PM10 emissions will be below the threshold for a Title V source.

PERMIT HISTORY/AFFECTED PERMITS

This permit replaces Federally Enforceable State Operation Permit No. 0530364-004-AF.

ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority - The permitting authority for this project is the Florida Department of Environmental Protection (Department), Southwest District Office's Air Resource Management Section. 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: 813-632-7600

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 and Enforcement Section - Attention: AIR. 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: 813-632-7600

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; and
d. 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 - 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. Operation Permit Renewal Application - A completed application for renewal of the operation permit shall be submitted to the Permitting Authority no later than 60 days prior to the expiration date of this operation permit. To properly apply for an 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. copies of the most recent compliance test reports required by Specific Condition Nos. A.9., B.10., C.9. and D.9., if not previously submitted; and

d. copies of the most recent month of records/logs specified in Specific Condition Nos. A.10., B.11., C.10. and D.10.

[Rules 62-4.030, 62-4.050, 62-4.070(3), 62-4.090, 62-210.300(2), and 62-210.900, F.A.C.]

FACILITY-WIDE REQUIREMENTS

9. General Standards: Unconfined Particulates - All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provisions 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, alteration, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling. Reasonable precautions shall include the following:

a. Exercise good housekeeping at all times.

b. Attend to spills promptly and effectively.

c. Make operators aware of the environmental requirements in this permit.

d. Reasonable precautions shall be taken in order to prevent fugitive dust emissions from traffic areas and shall include the application of water and/or gravel to on-property roads as necessary to suppress dust.

e. All material handling equipment at the facility is completely enclosed and/or controlled.

[Rules 62-4.070(3) and 62-296.320(4)(c), F.A.C.; FESOP No. 0530364-001-AF]

10. Recordkeeping /Reasonable Precautions - To demonstrate compliance with the requirements of Specific Condition No. 9, the permittee shall record the Facility Name, Facility ID, Location, Date, Time, and Operator initials of water and gravel application to on-property roads used to control unconfined emissions of particulate matter from the facility.
[Rule 62-4.070(3), F.A.C.; FESOP No. 0530364-001-AF]

11. Records Retention – All daily records required by this permit shall be completed within three (3) business days and all monthly records shall be completed by the end of the following month. All records required by this permit shall be maintained at the facility for at least three years, unless otherwise noted, and be made available to the Department for inspection upon request.
[Rule 62-4.160(14)(b), F.A.C.]

A. EU No. 001 – Quicklime Receiving and Storage Silos

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

EU ID No.	Emission Unit Description
001	Quicklime Receiving and Storage Silos - This emission unit consists of two quicklime storage silos (Quicklime Silo #2 and Quicklime Silo #3). Quicklime (CaO) is pneumatically loaded from trucks into the one of the two silos where it is stored. Quicklime Silo #2 has a storage capacity of 600 tons and a maximum loading rate of 50 tons/hour. Quicklime Silo #3 has a storage capacity of 300 tons and a maximum loading rate of 50 tons/hour. Quicklime stored in these silos supply feed material to the Lime Hydrator (EU No. 002) via a completely enclosed conveying system. Quicklime Silo #3 is equipped with a loadout spout for truck loading; however, this loadout activities are not a part this emissions unit. The loadout activities are included as a part of EU No. 004. The two silos are equipped with a common baghouse which is used to control particulate matter emissions during loading and operation. The baghouse is a Seneca 25 IM-low temperature fabric filter baghouse.

PERFORMANCE RESTRICTIONS

A.1. Permitted Capacity – The maximum material transfer rate of this emissions unit is limited as follows:

Brief Description	Maximum Material Transfer Rate (tons/hour daily average)	Annual Material Transfer Rate (tons per any consecutive 12 month period)
Quicklime Receiving and Storage Silos	50.0	109,200

(Permitting Note - See Appendix D, Condition 1, for Operation Rate during Testing requirements.)
[Rule 62-210.200 (definition of Potential to Emit), F.A.C.; FESOP No. 0530364-001-AF]

A.2. Restricted Operation - The hours of operation are limited to a maximum of 2,184 hours per consecutive 12-month period.
[Rules 62-4.070(3) and 62-210.200 (definition of Potential to Emit), F.A.C.; FESOP No. 0530364-001-AF]

EMISSIONS STANDARDS

A.3. PM Emissions Standard - Particulate Matter (PM) emissions from this emissions unit shall not exceed 3.81 pounds per hour.
[Rule 62-210.200, F.A.C., Definitions-(PTE); FESOP No. 0530364-001-AF]

A.4. Visible Emissions Standard in Lieu of PM Testing - Due to the expense and complexity of conducting a stack test on a minor source of particulate matter, and because this source is equipped with baghouse dust control devices, the Department, in accordance with the authority granted under Rule 62-297.310(7)(c), F.A.C., hereby establishes, for EU No. 001, a visible emission limitation not to exceed an opacity of 5% in lieu of a particulate matter stack test.
[Rules 62-297.310(7)(c) and 62-297.620(4), F.A.C.; FESOP No. 0530364-001-AF]

COMPLIANCE TESTING REQUIREMENTS

A.5. Compliance Tests - During each federal fiscal year (October 1st to September 30th), this emissions unit shall be tested to demonstrate compliance with the visible emissions standards.
[Rule 62-297.310, F.A.C.]

A.6. Compliance Test Requirements - Compliance tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit.
[Rule 62-297.310, F.A.C.]

A.7. Compliance Test Method - Required compliance tests shall be performed in accordance with the following reference method.

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources (30 minutes minimum duration)

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 methods may be used unless prior written approval is received from the Department.
[Rule 62-204.800, F.A.C.; Appendix A of 40 CFR 60]

NOTIFICATION REQUIREMENTS

A.8. 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.]

RECORDKEEPING AND REPORTING REQUIREMENTS

A.9. Compliance Test Reports - The permittee shall prepare and submit reports for all required compliance tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. D. The actual material transfer rates for the test period shall be included in the test report for each test. Failure to submit the actual transfer rates for the test period and a copy of the daily log for the test day in the test report may invalidate the test and fail to provide reasonable assurance of compliance.
[Rule 62-297.310(8), F.A.C.]

A.10. Daily and/or Monthly Log - to demonstrate compliance with Specific Condition No. A.1., the permittee shall maintain the following records:

a. Daily Records:
   1. Facility Name, Facility ID (0530364), Emission Unit ID (001) and Date.
   2. The start time of the material transfer.
   3. The end time of the material transfer.
   4. Calculate the total time material was transfer in hours.
   5. The total quantity of material transferred, in tons.
   6. Calculate the daily average material transfer rate in tons per hour using the information recorded above.

b. Monthly Records:
   1. Facility Name, Facility ID (0530364), Emission Unit ID (001), Month and Year.
   2. The total duration of time material was transfer (in hours) for the month.
   3. The total duration of time material was transfer (in hours) for the most recent consecutive 12-month period.
   4. The total quantity of material transferred for the month, in tons.
   5. The total quantity of material transferred for the most recent consecutive 12-month period, in tons.

[Rule 62-4.070(3), F.A.C.; FESOP No. 0530364-001-AF]

B. EU No. 002 – Lime Hydration Operation

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

EU ID No.	Emission Unit Description
002	Lime Hydrator Operation - This emission unit consists of an atmospheric lime hydration operation. Quicklime is transferred from the quicklime storage silos (EU No. 001) to the duplex mixer which feeds quicklime into the hydrator at a maximum rate of 9 tons per hour. The quicklime (CaO) is mixed and reacted with a water mixture in the hydrator. Approximately 12 tons per hour of hydrated lime (hydrate or $Ca(OH)_2$) is routed to an elevator, where it is transferred to an enclosed screw conveyor. The screw conveyor transfers the hydrate to a mill feed bin and feeder, which transfers the material to the roller mill and separation equipment. Hydrate is processed based on particle size in this operation. The material is routed between the roller mill and separation system (cyclone collector and fans) until it reaches a specific particle size. Particulate matter emissions from the roller mill and separation system are exhausted to the hydrator vent. Particulate matter emissions from the hydrator vent are controlled by a KVC Cyclone and an American Alloy Contact Wet Scrubber.

PERFORMANCE RESTRICTIONS

B.1. Permitted Capacity – The maximum material transfer rate of this emissions unit is limited as follows:

Brief Description	Maximum Material Transfer Rate (tons/hour daily average)	Annual Material Transfer Rate (tons per any consecutive 12 month period)
Lime Hydrator (Quicklime)	9.0*	78,840

* Input rate of quicklime to the Hydrator (maximum of 78,840 tons quicklime processed per consecutive 12 month period). Output rate of hydrated lime from the hydrator is approximately 12 tons/hour. The facility only handles quicklime and hydrated lime.

(Permitting Note - See Appendix D, Condition 1, for Operation Rate during Testing requirements.)

[Rule 62-210.200 (definition of Potential to Emit), F.A.C.; FESOP No. 0530364-001-AF]

B.2. Restricted Operation - The hours of operation are not limited (8760 hours per year).
[Rules 62-4.070(3) and 62-210.200 (definition of Potential to Emit), F.A.C.; FESOP No. 0530364-001-AF]

B.3. Contact Wet Scrubber Operation Requirements - The American Alloy Contact Scrubber shall be operated as follows:

a. The minimum scrubber liquid flow rate shall be at least 80 percent of the scrubber liquid flow rate corresponding to most recent particulate matter emissions test.

b. The minimum pressure drop (delta P) across the scrubber shall be 0.2 inches of water.

[Rule 62-210.650 & 62-4.070(3), F.A.C.; FESOP No. 0530364-001-AF]

EMISSIONS STANDARDS

B.4. PM Emissions Standard - Particulate Matter (PM) emissions from this emissions unit shall not exceed 12.5 pounds per hour.
[Rule 62-210.200, F.A.C., Definitions-(PTE); FESOP No. 0530364-001-AF]

B.5. Visible Emissions Standard - Visible emissions from the cyclone and scrubber control system shall not be equal to or greater than 20% opacity.
[Rule 62-296.320(4)(b)1, F.A.C.]

COMPLIANCE TESTING REQUIREMENTS

B.6. Visible Emissions Compliance Tests - During each federal fiscal year (October 1st to September 30th), the emissions unit (cyclone and scrubber control system exhaust) shall be tested to demonstrate compliance with the visible emissions standards.
[Rule 62-297.310, F.A.C.]

B.7. Particulate Matter Compliance Tests – This emissions unit (cyclone and scrubber control system exhaust) shall be tested for compliance with the particulate matter emission limitation within 180 days prior to the expiration date of this permit. This test shall be conducted concurrently with the VE test in Specific Condition No. B.6.
[Rules 62-297.310(7), and 62-297.310(8), F.A.C.; FESOP No. 0530364-001-AF]

B.8. Compliance Test Requirements - Compliance tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit.
[Rule 62-297.310, F.A.C.]

B.9. Compliance Test Methods - Required compliance tests shall be performed in accordance with the following reference method.

Methods	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 (30 minutes minimum duration)

The above methods are described in Appendix A of 40 CFR 60 and is 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.

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

RECORDKEEPING AND REPORTING REQUIREMENTS

B.10. Compliance Test Reports - The permittee shall prepare and submit reports for all required compliance tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. The actual material transfer rate (in tons/hour) of the emission unit for the test period shall be included in the test report for each test. The liquid flowrate of the scrubber and the pressure drop (delta P) across the scrubber as required by Specific Condition No. B.3. shall also be included in the test report for each test. Failure to submit the actual rate, the flowrate and the pressure drop for the test period along with a copy of the daily log for the test day in the test report may invalidate the test and fail to provide reasonable assurance of compliance.
[Rule 62-297.310(8), F.A.C.]

B.11. Daily and/or Monthly Log - To demonstrate compliance with Specific Condition No. B.1., the permittee shall maintain the following records:

a. Daily Records:
   1. Facility Name, Facility ID (0530364), Emission Unit ID (002) and Date.
   2. The total quantity of quicklime transferred into the hydrator, in tons.
   3. Hours of operation.
   4. Calculate the daily average quicklime transfer rate, in tons per hour, using the information recorded above.

b. Monthly Records:
   1. Facility Name, Facility ID (0530364), Emission Unit ID (002), Month and Year.
   2. The total quantity of quicklime transferred into the hydrator for the month, in tons.
   3. The total quantity of quicklime transferred for the most recent consecutive 12-month period, in tons.

[Rule 62-4.070(3), F.A.C.; FESOP No. 0530364-001-AF]

B.12. Contact Wet Scrubber Records - In order to demonstrate compliance with Specific Condition No. B.3., the permittee shall record once per shift the following:

a. Facility Name, Facility ID (0530364) and Emission Unit ID (002).
b. Date and time of the measurement.
c. Scrubber pressure drop (delta P) in inches of water.
d. Scrubber volumetric liquid flow rate in gallons per minute.
e. Initials of the operator.

[Rule 62-4.070(3), F.A.C.; FESOP No. 0530364-001-AF]

C. EU No. 003 – Lime Bagging Operation

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

EU ID No.	Emission Unit Description
003	Lime Bagging Operation - This emissions unit consists of an integrated system for handling lime. Finished hydrate from the lime hydrate operation (EU No. 002) is fed into one of the two main hydrate storage silos (Hydrate Silo #4 and Hydrate Silo #5). From the silos, hydrate is transferred to the bagging bin (Bagging Bin #1) through a series of enclosed screw conveyors and elevators. The bagging bin feeds a three-spout packer where bags are filled with hydrate. Hydrate can also be loaded into large bags using the Super Sack system which is connected directly to Hydrate Silo #5. Particulate matter emissions from the lime bagging operation are controlled with a Sly TubeJet low temperature fabric filter baghouse. The baghouse is rated for 7,400 acfm airflow.

PERFORMANCE RESTRICTIONS

C.1. Permitted Capacity – The maximum material transfer rate of this emissions unit is limited as follows:

Brief Description	Maximum Material Transfer Rate (tons/hour daily average)	Annual Material Transfer Rate (tons per any consecutive 12 month period)
Lime Bagging Operation	7.0	61,320

(Permitting Note - See Appendix D, Condition 1, for Operation Rate during Testing requirements.)

[Rule 62-210.200 (definition of Potential to Emit), F.A.C.; FESOP No. 0530364-001-AF]

C.2. Restricted Operation - The hours of operation are not limited (8760 hours per year).
[Rules 62-4.070(3) and 62-210.200 (definition of Potential to Emit), F.A.C.; FESOP No. 0530364-001-AF]

EMISSIONS STANDARDS

C.3. PM Emissions Standard - Particulate Matter (PM) emissions from this emissions unit shall not exceed 5.0 pounds per hour.
[Rule 62-210.200, F.A.C., Definitions-(PTE); FESOP No. 0530364-001-AF]

C.4. Visible Emissions Standard in Lieu of PM Testing - Due to the expense and complexity of conducting a stack test on a minor source of particulate matter, and because this source is equipped with baghouse dust control devices, the Department, in accordance with the authority granted under Rule 62-297.310(7)(c), F.A.C., hereby establishes, for EU No. 003, a visible emission limitation not to exceed an opacity of 5% in lieu of a particulate matter stack test.
[Rules 62-297.310(7)(c) and 62-297.620(4), F.A.C.; FESOP No. 0530364-001-AF]

COMPLIANCE TESTING REQUIREMENTS

C.5. Compliance Tests - During each federal fiscal year (October 1st to September 30th), the emissions unit shall be tested to demonstrate compliance with the visible emissions standards.
[Rule 62-297.310, F.A.C.]

C.6. Compliance Test Requirements - Compliance tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit.
[Rule 62-297.310, F.A.C.]

C.7. Compliance Test Method - Required compliance tests shall be performed in accordance with the following reference method.

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources (30 minutes minimum duration)

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 methods may be used unless prior written approval is received from the Department.

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

NOTIFICATION REQUIREMENTS

C.8. 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.]

RECORDKEEPING AND REPORTING REQUIREMENTS

C.9. Compliance Test Reports - The permittee shall prepare and submit reports for all required compliance tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. The actual material transfer rates for the test period shall be included in the test report for each test. Failure to submit the actual transfer rates for the test period and a copy of the daily log for the test day in the test report may invalidate the test and fail to provide reasonable assurance of compliance.
[Rule 62-297.310(8), F.A.C.]

C.10. Daily and/or Monthly Log - to demonstrate compliance with Specific Condition No. C.1., the permittee shall maintain the following records:

a. Daily Records:

1. Facility Name, Facility ID (0530364), Emission Unit ID (003) and Date.
2. The total quantity of material transferred (bagged), in tons.
3. Hours of operation.
4. Calculate the daily average material transferred (bagged), in tons per hour, using the information recorded above.

b. Monthly Records:

1. Facility Name, Facility ID (0530364), Emission Unit ID (003), Month and Year.
2. The total quantity of material transferred (bagged) for the month, in tons.
3. The total quantity of material transferred (bagged) for the most recent consecutive 12-month period, in tons.

[Rule 62-4.070(3), F.A.C.; FESOP No. 0530364-001-AF]

D. EU No. 004 – Bulk Truck Loadout

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

EU ID No.	Emission Unit Description
004	Bulk Truck Loadout - This emissions unit/operation is for loading trucks from Hydrate Storage Silos #4 and #5. Particulate matter emissions are controlled using the Sly TubeJet low temperature fabric filter baghouse system. This emissions unit/operation also incorporates emissions from the loadout spout of Quicklime Silo #3 and loadout emissions from Quicklime Silo #5A. Emissions from the loadout spout of Quicklime Silo #3 are uncontrolled and emissions from Quicklime Silo #5A are controlled with a recirculating dust collection system.

PERFORMANCE RESTRICTIONS

D.1. Permitted Capacity – The maximum material transfer rate of this emissions unit is limited as follows:

Brief Description	Maximum Material Transfer Rate (tons/hour daily average)	Annual Material Transfer Rate (tons per any consecutive 12 month period)
Bulk Truck Loadout	50.0	109,200

(Permitting Note - See Appendix D, Condition 1, for Operation Rate during Testing requirements.)

[Rule 62-210.200 (definition of Potential to Emit), F.A.C.; FESOP No. 0530364-001-AF]

D.2. Restricted Operation - The hours of operation are limited to a maximum of 2,184 hours per consecutive 12-month period.
[Rules 62-4.070(3) and 62-210.200 (definition of Potential to Emit), F.A.C.; FESOP No. 0530364-001-AF]

EMISSIONS STANDARDS

D.3. PM Emissions Standard - Particulate Matter (PM) emissions from this emissions unit shall not exceed the 1.8 pounds per hour.
[Rule 62-210.200, F.A.C., Definitions-(PTE); FESOP No. 0530364-001-AF]

D.4. Visible Emissions Standard - Visible emission from the Bulk Truck Loadout Operation are limited as follows:

a. Baghouse Visible Emissions Standard in Lieu of PM Testing - Due to the expense and complexity of conducting a stack test on a minor source of particulate matter, and because these sources are equipped with baghouse dust control devices, the Department, in accordance with the authority granted under Rule 62-297.310(7)(c), F.A.C., hereby establishes, for the baghouse used in the loadout operation of EU No. 004, a visible emission limitation not to exceed an opacity of 5% in lieu of a particulate matter stack test.

b. Loading Spouts Visible Emissions Standard - Visible emissions around the outlets of the loading spouts during truck loading shall not exceed 10% opacity.

[Rules 62-297.310(7)(c) and 62-297.620(4), F.A.C.; FESOP No. 0530364-001-AF]

COMPLIANCE TESTING REQUIREMENTS

D.5. Compliance Tests - During each federal fiscal year (October 1st to September 30th), the baghouse and loadout spouts shall be tested to demonstrate compliance with the visible emissions standards.
[Rule 62-297.310, F.A.C.]

D.6. Compliance Test Requirements - Compliance tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit.
[Rule 62-297.310, F.A.C.]

D.7. Compliance Test Method - Required compliance tests shall be performed in accordance with the following reference method.

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources (30 minutes minimum duration)

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 methods may be used unless prior written approval is received from the Department.

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

NOTIFICATION REQUIREMENTS

D.8. 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.]

RECORDKEEPING AND REPORTING REQUIREMENTS

D.9. Compliance Test Reports - The permittee shall prepare and submit reports for all required compliance tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. The actual material transfer rates for the test period shall be included in the test report for each test. Failure to submit the actual transfer rates for the test period and a copy of the daily log for the test day in the test report may invalidate the test and fail to provide reasonable assurance of compliance.
[Rule 62-297.310(8), F.A.C.]

D.10. Daily and/or Monthly Log - to demonstrate compliance with Specific Condition No. D.1., the permittee shall maintain the following records:

a. Daily Records:
   1. Facility Name, Facility ID (0530364), Emission Unit ID (003) and Date.
   2. The start time of the material transfer.
   3. The end time of the material transfer.
   4. Calculate the total time material was transfer in hours.
   5. The total quantity of material transferred, in tons.
   6. Calculate the daily average material transfer rate in tons per hour using the information recorded above.

b. Monthly Records:
   1. Facility Name, Facility ID (0530364), Emission Unit ID (004), Month and Year.
   2. The total duration of time material was transfer (in hours) for the month.
   3. The total duration of time material was transfer (in hours) for the most recent consecutive 12-month period.
   4. The total quantity of material transferred for the month, in tons.
   5. The total quantity of material transferred for the most recent consecutive 12-month period, in tons.

[Rule 62-4.070(3), F.A.C.; FESOP No. 0530364-001-AF]