



**FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION**

NORTHEAST DISTRICT
8800 BAYMEADOWS WAY WEST, SUITE 100
JACKSONVILLE, FLORIDA 32256

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GOVERNOR

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SECRETARY

Sent by Electronic Mail – Received Receipt Requested

PERMITTEE

Lindsay Precast, Inc.
13365 Southern PreCast Drive
Alachua, Florida 32615

Air Permit No. 0010064-009-AO
Permit Expires: September 24, 2018

Authorized Representative:
Ron Lindsay, Jr.-Vice President

Lindsay Precast, Inc.
Air Operating Permit Renewal

This is the final air operating permit which renews Air Operation Permit No. 0010064-006-AO and also includes Air Construction Permit No. 0010064-008-AC for the Polymer Concrete Casting Operations. Lindsay Precast, Inc. is a Concrete Batching Plant (Standard Industrial Classification No. 3272). The facility is located in Alachua County at 13365 Southern PreCast Drive in Alachua, Florida. The UTM coordinates are Zone 17, 359.0 km East, and 3295.7 km North.

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

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.

This air pollution operating 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 continued 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.

AIR OPERATING PERMIT (FINAL)

Executed in Jacksonville, Florida



Richard S. Rachal III, P.G.
Program Administrator
Waste and Air Resource Management Program

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Notice of Issuance and Final Permit) 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 September 24, 2013 to the persons listed below.

Mr. Ron Lindsay, Jr., Vice President-Lindsay Precast, Inc. (rlindsay@LindsayPrecast.com)
Veronica Sgro, P.E., Senior Engineer- Koogler & Associates (vsagro@kooglerassociates.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)

September 24, 2013
(Date)

SECTION 1. GENERAL INFORMATION (FINAL)

FACILITY AND PROJECT DESCRIPTION

Existing Facility

Concrete Batch Plants Nos. 1, 2 & 3 each with two cement silos. The existing facility consists of the following emissions units.

| Facility ID No. 0010064 | |
|-------------------------|---|
| ID No. | Emission Unit Description |
| 001 | Pre-Cast Concrete Batch Plant with two cement silos, a weight hopper, and a mixer, which deposits concrete into molds. The maximum production rate is 12 cubic yards per hour. |
| 002 | Pre-Cast Concrete Batch Plant with two cement silos, a weight hopper, and a mixer, which deposits concrete into molds. The maximum production rate is 31.3 cubic yards per hour. |
| 003 | Pre-Cast Concrete Batch Plant with two cement silos, a weight hopper, and a mixer, which deposits concrete into molds. The maximum production rate is 60 cubic yards per hour. |
| 005 | Polymer Concrete Cast Operations - Polymer Concrete Casting Operations take place inside a building. Molds are prepared by waxing and placing fiberglass mats on cores and jackets. Resin, sand, rock, calcium carbonate, and pigment are stored in bags or totes prior to being mixed in a tank. The mixture is removed from the tank in batches. Catalyst is added to each batch and then mixed with a disperser. The catalyzed batch is then poured into the prepared fiberglass mold set. Once the batch is set, the product is removed from the mold. The polymer concrete product's edges are ground smooth by hand or by an occasional electric grinder and the minor particulate matter is sweep up daily. The product is then palletized and placed in the yard. |

*EU004 Sandblasting Operation was never constructed at the facility.

FACILITY REGULATORY CLASSIFICATION

- The facility **is not** a major source of hazardous air pollutants (HAP).
- 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 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 (FINAL)

1. Permitting and Compliance Authority: The permitting authority for this project is the Northeast District, Florida Department of Environmental Protection (Department) Waste and Air Resource Management Program. The compliance authority for this project is the Northeast District Compliance Assurance, Florida Department of Environmental Protection. The Northeast District's mailing address is 8800 Baymeadows Way West, Suite 100, Jacksonville, Florida 32256-7590. The Northeast District's telephone number is (904) 256-1700. All documents related to applications for permits to operate an emissions unit shall be submitted to the Northeast District. All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Northeast District Office, Compliance Assurance.
2. 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
3. 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.
4. 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.]
5. 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.]
6. A completed Application for Air Permit – Non-Title V Source Renewal [DEP Form No. 62-210.900(4), F.A.C.] shall be submitted to the Department at least 60 days prior to the expiration date of this operation permit. To properly apply for an operation permit, the permittee shall submit the appropriate application form, processing fee, and compliance test reports as required by this permit. [Rules 62-4.030, and 62-4.050, F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

A. EU001, 002, 003 Pre-Cast Concrete Batch Plants

| ID No. | Emission Unit Description |
|---------------|--|
| 001 | Pre-Cast Concrete Batch Plant with two cement silos, a weight hopper, and a mixer, which deposits concrete into molds. The maximum production rate is 12 cubic yards per hour. |
| 002 | Pre-Cast Concrete Batch Plant with two cement silos, a weight hopper, and a mixer, which deposits concrete into molds. The maximum production rate is 31.3 cubic yards per hour. |
| 003 | Pre-Cast Concrete Batch Plant with two cement silos, a weight hopper, and a mixer, which deposits concrete into molds. The maximum production rate is 60 cubic yards per hour. |

Particulate matter emissions generated during the loading of the cement storage silos are controlled with a baghouse on each silo.

{Emission Units 001- 003 are subject to regulation under: Rule 62-296.414, F.A.C. for Concrete Batching Plants.}

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

The following Specific Conditions apply to EUs 001-003:

A.1. Hours of Operation. The hours of operation are not limited, i.e. 24 H/D; 7 D/W; 52 W/Y, and 8760 Hours per year.

[Rules 62-4.160(2), 62-210.200(PTE), F.A.C.]

EMISSION LIMITATIONS AND PERFORMANCE STANDARDS

A.2. Emission Limits. Stack Emissions. Emissions from silos, weigh hoppers (batchers), and other enclosed storage and conveying equipment shall be controlled to the extent necessary to limit visible emissions to 5 percent opacity

[Rule 62-296.414(1), F.A.C.]

A.3. Unconfined Particulate Matter. The owner or operator shall take reasonable precautions to control unconfined emissions from hoppers, storage and conveying equipment, conveyor drop points, truck loading and unloading, roads, parking areas, stock piles, and yards as required by Rule 62-296.320(4)(c), F.A.C. For concrete batch plants the following shall constitute reasonable precautions:

(a) Management of roads, parking areas, stockpiles, and yards, which shall include one or more of the followings:

1. Paving and maintenance of roads, parking areas, and yards.
2. Application of water or environmentally safe dust-suppressant chemicals when necessary to control emissions.

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

A. EU001, 002, 003 Pre-Cast Concrete Batch Plants

Specific Condition No. A.3 continued:

3. Removal of particulate matter from roads and other paved area under control of the owner or operator to mitigate re-entrainment, and from building or work areas to reduce airborne particulate matter.
 4. Reduction of stockpile height or installation of wind breaks to mitigate wind entrainment of particulate matter from stockpiles.
- (b) Use of spray bar, chute, or partial enclosure to mitigate emissions at the drop point to the truck.

[Rule 62-296.414(2), F.A.C]

COMPLIANCE MONITORING AND TESTING REQUIREMENTS

A.4. Visible Emissions Compliance Testing. The reference test method for visible emissions shall be EPA Method 9, as described at 40 CFR, Part 60, Appendix A, adopted and incorporated by reference at Rule 62-204.800, F.A.C.

[Rule 62-296.414(3)(a)]

A.5. Testing Frequency. The owner or operator of any concrete batching plant operating under the authority of an air operation permit shall have a performance test conducted for visible emissions for each dust collector exhaust point annually.

[Rule 62-296.414(4)(b), F.A.C.]

A.6. Operation During Compliance Test. The permittee shall conduct visible emissions testing while loading the silo at a rate that is representative of the normal silo loading rate. The minimum loading rate shall be 25 tons per hour unless such rate is unachievable in practice. If emissions from the weigh hopper (batcher) operation are also controlled by the silo dust collector, the batching operation shall be in operation during the visible emissions test. The batching rate during the emissions test shall be representative of the normal batching rate and duration. Each test report shall state the actual silo loading rate during emissions testing and, if applicable, whether or not batching occurred during emissions testing.

[Rule 62-296.414(3)(c), F.A.C.]

A.7. If emissions from the weigh hopper operation are controlled by a dust collector which is separate from the silo dust collector, visible emissions tests of the weigh hopper dust collector exhaust point shall be conducted while batching at a rate that is representative of the normal batching rate and duration. Each test report shall state the actual batching rate during emissions testing.

[Rule 62-296.414(3)(d), F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

A. EU001, 002, 003 Pre-Cast Concrete Batch Plants

REPORTING AND RECORDKEEPING REQUIREMENTS

A.8. Recordkeeping. The owner or operator shall maintain records to document the silo loading and the hourly and annual production rates. These records shall be retained for five years.

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

A.9. This facility is subject to the requirements of the attached Combined Appendices A-D.

A.10. This facility is subject to the requirements of the SECTION 2. Administrative Requirements on page four of this permit.

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

B. EU004 Polymer Concrete Casting Operation

This section of the permit addresses the following emissions unit.

| ID No. | Emission Unit Description |
|--------|---------------------------------|
| 005 | Polymer Concrete Cast Operation |

Polymer Concrete Casting Operations take place inside a building. Molds are prepared by waxing and placing fiberglass mats on cores and jackets. Resin, sand, rock, calcium carbonate, and pigment are stored in bags or totes prior to being mixed in a tank. The mixture is removed from the tank in batches. Catalyst is added to each batch and then mixed with a disperser. The catalyzed batch is then poured into the prepared fiberglass mold set. Once the batch is set, the product is removed from the mold. The polymer concrete product's edges are ground smooth by hand or by an occasional electric grinder and the minor particulate matter is sweep up daily. The product is then palletized and placed in the yard.

For informational purposes, the Total HAP (Styrene) potentials to emit were estimated to be below 5 TPY.

[Determination information submitted April 30, 2013 and Rule 62-210.(PTE), F.A.C.]

The following Specific Conditions apply to EU 005:

PERFORMANCE RESTRICTIONS

B.1. Permitted Capacity. The resin maximum annual process rate shall not exceed 1,500 tons per year of mix.

[Rule 62-210.200(PTE), F.A.C., and Permit No. 0010064-008-AC]

B.2. Hours of Operation. The hours of operation of are not limited (8760 hours per year/ 8784 hours in a leap year).

[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

B.3. Visible Emissions. No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity).

[Rules 62-4.070(3), and Rule 62-296.320(4)(b) F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

B. EU004 Polymer Concrete Casting Operation

B.4. Unconfined Particulate Emissions.

1. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction, alteration, demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions.
2. Any permit issued to a facility with emissions of unconfined particulate matter shall specify the reasonable precautions to be taken by that facility to control the emissions of unconfined particulate matter.
3. Reasonable precautions include the following:
 - a. Paving and maintenance of roads, parking areas and yards.
 - b. Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
 - c. Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.
 - d. Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the facility to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.
 - e. Landscaping or planting of vegetation.
 - f. Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
 - g. Confining abrasive blasting where possible.
 - h. Enclosure or covering of conveyor systems.
4. In determining what constitutes reasonable precautions for a particular facility, the Department shall consider the cost of the control technique or work practice, the environmental impacts of the technique or practice, and the degree of reduction of emissions expected from a particular technique or practice.

[Rule 62-296.320(4)(c), F.A.C.]

TESTING REQUIREMENTS

- B.5. Visible Emissions.** The permittee shall conduct a visible emissions compliance test upon request by the Department in accordance with the requirements of Rule 62-297.310(7)(b), F.A.C., as stated in **Condition 4.b of Appendix D Common Testing Requirements**. The test Method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C.

[Rule 62-4.070, F.A.C.]

RECORDS AND REPORTS

- B.6. Monthly Recordkeeping (resin usage).** In order to demonstrate compliance with **Specific Condition No. B.1**, the owner or operator shall maintain a log of resin usage based on a consecutive twelve month total. These records shall be retained for five years and made available to Departmental inspectors upon request. Logs must document the method, calculations, and formulas used in determining the usage rate and the emission rate. This includes, but is not limited to, the product name, density, individual and total HAP contents, and individual and total VOC content. All calculations, including those used to derive emission credits for mass balance must be based off emission factors presented in the permitting application or supporting documents, must be clearly documented, and may be presented **in the form of a template of sample calculations**, which is filed with the logs required in this condition and available for review on site by regulatory inspectors. At a minimum the log shall contain:

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

B. EU004 Polymer Concrete Casting Operation

Specific Condition No. B.6. Continued:

Monthly

- Facility Name, Facility ID No. (i.e., Lindsay Precast, Inc., 0010064);
- Designation of month and year of operation for which records are being tabulated;
- Consecutive 12 month total of individual and combined HAP/VOC emissions in tons;
- Consecutive 12 month total of resin usage in tons;
- The VOC/HAP content of each gel-coats, resins, and other VOC/HAP containing materials;
- Consecutive 12 month total of wax usage in tons.

The monthly logs shall be completed by the end of the following month.

Note: A consecutive twelve month total for the month in question plus the totals for the eleven months previous to the month in question. A consecutive twelve month total treats each month of the year as the end of a 12-month period. A twelve month total is not a year-to-date total. Facilities that have not been operating for 12 months should retain 12 month totals using whatever number of months of data are available until such a time as a consecutive 12 month total can be maintained each month.

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

B.7. This facility is subject to the requirements of the attached Combined Appendices A-D.

B.8. This facility is subject to the requirements of the SECTION 2. Administrative Requirements on page four of this permit.