August 11, 2014

NOTICE OF PERMIT ISSUANCE

Electronic Mail
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RETURN RECEIPT REQUESTED

PERMITTEE:
Florikan ESA, LLC
1579 Barber Rd
Sarasota, FL 34240

Air Permit No.:	1150179-001-AO
County:	Sarasota
Expiration Date:	December 31, 2015

Authorized Representative:
Gilbert Humphrey, QA/QC Manager

Florikan ESA, LLC
Minor Source Air Operating Permit
Project: Fertilizer polymer coating

Dear Mr. Humphrey:

This is the final air operation permit, which authorizes the operation of Florikan ESA, LLC, which is a fertilizer polymer coating operation (Standard Industrial Classification No. 28), that manufactures time release fertilizer. The facility is located in Sarasota County at 1579 Barber Rd., Sarasota, FL 34240-9391. The UTM coordinates are Zone 17, 357.17 km East, and 3022.86 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 operation 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 operate the facility in accordance with the conditions of this permit.

A person whose substantial interests are affected by the permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. Petitions must be filed within 14 days of receipt of this final permit. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice. The petition must contain the information set forth below and must be filed (received) in the Office of the County Attorney, 1660 Ringling Boulevard, Sarasota, Florida 34236. Under Rule 62-

110.106(4), F.A.C., a person may request an extension of the time for filing a petition for an administrative hearing. The request must be filed (received) in the Office of the County Attorney before the end of the time period for filing a petition for an administrative hearing. 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 (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which EPD's action is based must contain the following information, as indicated in Rule 28-106.201, Florida Administrative Code:

(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 determination;
(c) A statement of when and how the petitioner received notice of EPD's 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 EPD's proposed action;
(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of EPD's proposed action; and
(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the EPD to take with respect to EPD's proposed action.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that EPD'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 EPD have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation under Section 120.573, Florida Statutes, is not available for this proceeding. This permit action is final and effective on the date filed with the Clerk of the Office of the County Attorney unless a petition (or request for an extension of time) is filed in accordance with the above. Upon the timely filing of a petition (or request for an extension of time), this permit will not be effective until further order of the EPD.

Any party to this Order (air permit) has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Office of the County Attorney, 1660 Ringling Boulevard, Sarasota, Florida 34236; 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 of Appeal must be filed within thirty (30) days from the date this Order is filed with the Clerk of the Office of the County Attorney.

Executed in Sarasota, Florida.

SARASOTA COUNTY ENVIRONMENTAL PROTECTION DIVISION
AIR & WATER QUALITY

Michael Storino *Environmental Supervisor* Environmental Protection Division Air & Water Quality	John T. Hickey, P.E. *Manager* Environmental Protection Division Air & Water Quality

Enclosure

S14PC.004

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this Notice of Final Air Permit package was mailed by certified mail before the close of business on ***August __, 2014*** to:

Gilbert Humphrey, QA/QC Manager, Florikan ESA, LLC, 1579 Barber Rd, Sarasota, FL 34240-9391; gilbert.humphrey@florikan.com

The undersigned duly designated deputy clerk hereby certifies that this Notice of Final 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 ***August __, 2014*** to the persons listed below:

cc: Sara Greivell, Project Manager, Grove Scientific & Engineering Company, 6140 Edgewater Drive, Suite F, Orlando, FL 32810; sara@grovescientific.com

Jeff Koerner, *Program Administrator*, FDEP DARM, Division of Air Resource Management 2600 Blair Stone Road MS 5500, Tallahassee, Florida 32399-2400; Jeff.Koerner@dep.state.fl.us

David M. Pearce, *Attorney*, Sarasota County Office of the County Attorney; dpearce@scgov.net

Melissa L. Wagar, Sarasota County Office of the County Attorney; mwagar@scgov.net

Clerk Stamp

FILING AND ACKNOWLEDGEMENT FILED, on this date, pursuant to Section 120.52(7), F.S., with the designated EPD Clerk, receipt of which is hereby acknowledged.

_____ ***August __, 2014***

Clerk Date

FACILITY AND PROJECT DESCRIPTION

Existing Facility

Florikan ESA, LLC is a fertilizer polymer coating facility with processes that include polymer coating, material handling/blending, bagging, and truck loadout activities.

Uncoated small beads of fertilizer (prills) of varying composition are bought from outside sources, transported and offloaded from trucks and stored on site. Batches of prills are dried by heating them to between 165 and 180 °F in a fluidized bed preheater utilizing a 5 million British thermal units per hour (MMBtu/hour) indirect fire propane fueled burner. Agitation of the prills creates particulate matter (PM) emissions, which are ducted to a Mac Process baghouse, model 144LST196, emission control system and exhausted to the atmosphere by stack.

The heated prills are transferred by an elevator and conveying system to one of three Continental Rollo-Mixer, Model Mark IX, enclosed drum mixing units. The fertilizer is then coated with Luprinate M20S Isocyanate and Pluracol GP430 Polyol, which react to form a polymer coating within the mixing units. If needed, a recirculating supplemental air heating system utilizing a 1.5 MMBtu/hour indirect fire propane fueled burner is to maintain a minimum reaction temperature above 165 °F within the enclosed drum mixers. The recirculated air is filtered of particulate matter using in-line metal filters. Alternatively, the heated prills may be transferred and deposited by forklift into an open drum mixer where the fertilizer is mixed and coated using a hand held wand. Potential hazardous air pollutants (HAPs) and volatile organic compounds (VOCs) emissions from the coating process are fugitive in nature and well below permitting thresholds as demonstrated through testing completed on June 12, 2014 by Environmental Safety Consultants, Inc.

Once the coating process is completed, the prills are deposited onto a conveyor and transferred to a screener to ensure consistent sizing of the finished product. The coated and screened prills are blended and packaged to provide specific fertilizer concentrations and time release characteristics as requested by customers. Fugitive dust emissions from the material handling, transfer, and packaging are collected by a series of hoods which are ducted to a Camfil-Farr baghouse, Model GS12SQ. The baghouse exhausts back into the facility.
The existing facility consists of the following emissions units (EUs):

Facility ID No. 1150179

ID No.	Emission Unit Description
001	Fluidized Bed Preheater
002	Fertilizer coating process & material handling

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

FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of 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 213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.
- The facility is a naturally minor stationary source of air pollution.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The permitting authority for this project is Sarasota County Environmental Protection Division (EPD), Air & Water Quality. EPD's mailing address is: EPD Air & Water Quality; 1001 Sarasota Center Blvd. Sarasota; Sarasota, Florida 34240. All documents related to applications for permits shall be submitted in triplicate to EPD.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to EPD. The mailing address and phone number are: EPD Air & Water Quality; 1001 Sarasota Center Blvd.; Sarasota, Florida 34240; (941) 861-0909.

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

   Appendix A. Citation Formats and Glossary of Common Terms; and
   Appendix B. General Conditions.

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, EPD may require the permittee to conform to new or additional conditions. EPD shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, EPD may grant additional time. [Rule 62-4.080, F.A.C.]

6. Modification: No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the EPD. 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. Source Obligation: At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification. [Rule 62-212.400(12), F.A.C.]

8. Renewal: Prior to sixty (60) days before the expiration date of this permit, the permittee shall apply for a renewal of the permit. A renewal application shall be timely and sufficient. If the application is submitted prior to sixty (60) days before expiration of the permit, it will be considered timely and sufficient. If the renewal application is submitted at a later date, it will not be considered timely and sufficient unless it is submitted and made complete prior to the expiration of the operation permit. When the application for renewal is timely and sufficient, the existing permit shall remain in effect until the renewal application has been finally acted upon by EPD. [Rule 62-4.090, F.A.C.

This section of the permit addresses the following emission unit:

EU ID No.	*Emissions Unit Description*
001	Fluidized bed preheater
002	Fertilizer coating process & material handling

EQUIPMENT

1) Fluidized Bed Preheater (EU-001): The permittee is authorized to operate a fluidized bed preheater. A 5 million British thermal units per hour (MMBtu/hour) propane fueled burner indirectly heats fresh air which is used to dry small beads of fertilizer (prills) by blowing heated air up through a fluidized bed. The prills are heated to a target range of between 165 to 180 °F. Agitation of the prills creates particulate matter (PM) emissions, which are ducted to a Mac Process baghouse, model 144LST196, emission control system with the following design specifications:

   a. The design dust outlet loading from the dust collector shall be no more than 0.02 grains per dry standard cubic feet (dscf) of exhaust.

   b. The flow rate through the dust collector will be approximately 20,000 actual cubic feet per minute (acfm).

   [Design and Application No. 1150179-001-AO]

2) Fertilizer coating & material handling process (EU-002): The permittee is authorized to operate a fertilizer coating process consisting of: Three (3) enclosed drum and Two (2) open drum mixing units, coating storage, pump systems, fertilizer transfer, storage and bagging operations. When needed, a recirculating supplemental air heating system utilizing a 1.5 MMBtu/hour indirect fire propane fueled burner is used to maintain a minimum reaction temperature above 165 °F within the enclosed drum mixers. [Design and Application No. 1150179-001-AO]

PERFORMANCE RESTRICTIONS

3) Permitted Capacity: The maximum process rate provided by the facility is 42,048 tons/year. [Application No. 1150179-001-AO and Rule 62-210.200(PTE), F.A.C.]

4) Authorized Fuel: Fuel used shall be limited to propane or natural gas. The estimated maximum heat input from fuel firing is 5 MMBtu/hour for the preheater and 1.5 MMBtu/hour for the supplemental air heating system for the coating process. [Application No. 1150179-001-AO and Rule 62-210.200(PTE), F.A.C.]

5) Restricted Operation: The hours of operation of are not limited (8760 hours per year). [Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

WORK PRACTICE STANDARDS

6. Dust Collector Maintenance: New and replacement filters/bags shall meet the dust outlet design specification based on vendor specifications. No particulate matter emissions tests are required. [Rules 62-4.070(3), F.A.C.]

7. Circumvention of Control Equipment: The permittee shall not circumvent any air pollution control device or allow the emissions of air pollutants without the applicable air pollution control devices (Mac Process model 144LST196 baghouse and Camfil-Farr model GS12SQ baghouse) operating

properly. [Rule 62-210.650, F.A.C.]

8. Visible Emissions (VE) Standard (EU 001): In order to provide reasonable assurance that the Mac Process, model 144LST196, dust control baghouse is functioning properly, VE from the baghouse exhaust stack shall not exceed 5% opacity. If visible emissions are observed, the permittee shall investigate and take the corrective actions to return the dust collector to normal operation (e.g., maintenance, filter/bag replacement, etc.) This requirement does not impose a specific testing requirement. [62-4.070(3), F.A.C.]

9. General Opacity Standard: No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. This general requirement does not impose a specific testing requirement. [Rule 62-296.320(4)(b)1, F.A.C.]

10. Excess Emissions Prohibited: Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

11. Excess Emissions - Notification: In case of excess emissions resulting from malfunctions, the permittee shall notify the Compliance Authority in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the EPD. [Rule 62-210.700(6), F.A.C.]

12. VOC/Organic Solvents Emissions: No person shall store, pump, handle process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emissions control devices or systems deemed necessary and ordered by EPD. Such controls include the following:

    a. Tightly cover or close all adhesive/ solvent/ coating containers when they are not in use;

    b. Tightly cover all adhesive/ solvent/ coating day tanks when not in use;

    c. Maintain all pipes/ valves/ fittings/ hoses in good operating condition;

    d. Confine rags used with adhesives/ solvents/ coatings to tightly closed, fireproof containers when not in use; and,

    e. Immediately confine and clean up any spills; make sure wastes are placed in closed containers for reuse/ recycling/ proper disposal.

    [Rule 62-296.320(1), F.A.C.]

13. Objectionable Odor Prohibited: No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An “objectionable odor” means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rules 62-296.320(2) and 62-210.200(Definitions), F.A.C.]

14. Plant Operation - Problems: If temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by fire, wind or other cause, the permittee shall notify each Compliance Authority as soon as possible, but at least within one working day, excluding

weekends and holidays. The notification shall include: pertinent information as to the cause of the problem; steps being taken to correct the problem and prevent future recurrence; and, where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with the conditions of this permit or the regulations. [Rule 62-4.130, F.A.C.]

MONITORING REQUIREMENTS

15. Dust Collector: At least once per month, the permittee shall inspect the dust collectors and perform maintenance and filter/bag replacements as necessary. The permittee shall record in a written log the date, the name of the person conducting the maintenance check, and the work performed. The same information shall also be recorded when the permittee is investigating visible emissions from the dust collector stack. [Rule 62-4.070(3), F.A.C.]

RECORDS AND REPORTS

16) Records Retention: All measurements, records, and other data required by this permit shall be documented in a permanent, legible format and retained for at least 5 years following the date on which such measurements, records, or data are recorded. Records shall be made available to the Compliance Authority upon request. [Rule 62-213.440(1)(b)2, F.A.C.]

SARASOTA COUNTY ENVIRONMENTAL PROTECTION DIVISION
AIR & WATER QUALITY

Michael Storino	John T. Hickey, P.E.
Environmental Supervisor	*Manager*
Environmental Protection Division	Environmental Protection Division
Air & Water Quality	Air & Water Quality