



**FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION**

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

**RICK SCOTT
GOVERNOR**

**HERSCHEL T. VINYARD JR.
SECRETARY**

Electronically Sent- Received Receipt Requested

anuttall@far-chemical.com

FINAL PERMIT

PERMITTEE

FAR Research, Inc.
2210 Wilhelmina Court, NE
Palm Bay, Florida 32905

Authorized Representative:

Mr. Alfred Nuttall, VP/General Manager

Air Permit No. 0090103-005-AF
Permit Expires: 03/31/2018
Site Name: FAR Research Facility
Federally Enforceable State Operation
Permit (FESOP)
Project Name: FAR Research Permit
Renewal

This is the final air operation permit, which renews Air Operation Permit No. 0090103-004-AF. The facility is a chemical specialty processes facility. FAR Research, Inc., FAR Research Facility (Standard Industrial Classification No. 2800) is located in Brevard County at 2210 Wilhelmina Court, NE in Palm Bay, Florida. The UTM coordinates are Zone 17, 539.62 km East, and 3103.28 km North.

This final permit is organized by the following sections:

Section 1. General Information

Section 2. Administrative Requirements

Section 3. Facility-wide and 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 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.

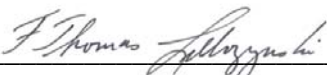
Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of 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 Orange County, Florida



F. Thomas Lubozynski, P.E.
Waste & Air Resource Programs Administrator

April 18, 2013
Date


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 to the persons listed below.

Mr. Alfred Nuttall, VP/General Manager (anuttall@far-chemical.com)
Mr. Vernon Brown, Safety, Security and Regulatory Manager (vbrown@far-chemical.com)

Clerk Stamp

FILED, on this date, pursuant to Section 120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.



Clerk)

April 18, 2013

(Date)

SECTION 1. GENERAL INFORMATION (FINAL)

FACILITY AND PROJECT DESCRIPTION

FAR Research, Inc. - FAR Research Facility

The facility is a chemical specialty processes facility. The facility includes chemical specialty processes that are used to produce silicon products for the semiconductor, plastic, and cosmetic industries; to produce pharmaceutical intermediates; and to produce emulsion for high-resolution photography. Emissions from activities at the facility are ducted through the following: an Indusco, Inc. fume scrubber with a 56-foot stack servicing Building No. 14; and an Indusco, Inc. Fume scrubber with a 40-foot stack serving Buildings No. 2 and No. 7 plus the vents from both the bromine storage tank and the trimethylchlorosilane storage tank.

The facility also includes two natural gas-fired hot water boilers that are exempt from permitting in accordance with Rule 62-210.300(3)(a)33., F.A.C. The boilers are a 25 hp Cleaver-Brooks Model M200X with a maximum heat input of 1.05 MMBTU per hour and a 100 hp Cleaver-Brooks Model CBH-200-100 with a maximum heat input of 4.19 MMBTU per hour.

The existing facility consists of the following emissions unit.

Facility ID No. 0090103	
ID No.	Emission Unit Description
001	Chemical Specialty Processes

Project Description

This project renews Air Operation Permit No. 0090103-004-AF. The Croll-Reynolds Model 18T-12H packed tower scrubber Ammonia Stack is no longer at the facility and was removed from the permit. There are no other changes in the facility's operation.

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.
- The facility is a synthetic minor (non-Title V) facility.

PERMIT HISTORY/AFFECTED PERMITS

Renews Permit No. 0090103-004-AF.

SECTION 2. ADMINISTRATIVE REQUIREMENTS (FINAL)

1. Permitting Authority: The permitting authority for this project is the Florida Department of Environmental Protection, Central District, Waste & Air Resource Programs. The Central District's mailing address and phone number is:

Florida Department of Environmental Protection
Central District Office
Waste and Air Resource Programs
3319 Maguire Blvd., Ste. 232
Orlando, FL 32803-3767
Telephone: 407-897-4100

All documents related to applications for permits shall be submitted to the above address or electronically to the following address: **DEP_CD@dep.state.fl.us**. In any electronic submittal, clearly identify the Air Permit Project No. 0090103-005-AF.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Central District Compliance Assurance Program. (Use the above mailing or e-mail 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.]

SECTION 2. ADMINISTRATIVE REQUIREMENTS (FINAL)

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 must be submitted electronically. Go to the following website for the latest information about electronic submittal of AORs:

<http://www.dep.state.fl.us/air/emission/eaor/default.htm>

[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 the operation permit. To properly apply for an operation permit, the applicant shall submit the following:
- 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/>);
 - the appropriate operation permit application fee from Rule 62-4.050(4)(a), F.A.C.;
 - copies of the most recent compliance test report required by Specific Condition No. **A.7.**, if not previously submitted; and
 - copies of the two most recent months of records/logs specified in Specific Condition No. **A.14.**

[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.]

SECTION 3. FACILITY-WIDE AND EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

A. EU No. 001 – Chemical Specialty Processes

This section of the permit addresses the following emissions unit.

ID No.	Emission Unit Description
001	Chemical Specialty Processes

PERFORMANCE RESTRICTIONS

- A.1. Restricted Operation: The hours of operation are not limited.
[Rules 62-4.070(3) and 62-210.200(247), Potential To Emit, F.A.C.]
- A.2. Circumvention: No person shall circumvent any pollution control device or allow the emissions of air pollutants without the applicable air pollution control device operating properly.
[Rule 62-210.650, F.A.C.]

EMISSIONS STANDARDS

- A.3. Unconfined Emissions of Particulate Matter: 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. 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.
- [Rule 62-296.320(4)(c), F.A.C.]
- A.4. Objectionable Odor Prohibited: No person shall cause, suffer, or allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor. An objectionable odor is defined as 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. [Rule 62-296.320(2) and 62-210.200(221), Objectionable Odor, F.A.C.]
- A.5. Visible Emissions Limitation: Visible emissions from the 2 existing Indusco, Inc. Fume scrubbers are limited to less than 20 percent opacity. [Rule 62-296.320(4)(b)1., F.A.C.]

SECTION 3. FACILITY-WIDE AND EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

A. EU No. 001 – Chemical Specialty Processes

- A.6. VOC/HAP Emissions Limitations: The maximum facility-wide VOC/HAP emissions are limited to the following, per any consecutive 12-month period:

Pollutant	Emissions (tons/consecutive 12-month period)
Total VOCs	Less than 25.0
Total HAPs	Less than 25.0
Single HAP	Less than 10.0

These limits were requested and accepted by the applicant to make the facility a synthetic minor (non-Title V) facility.

[Rules 62-4.070(3) and 62-210.200(247), Potential To Emit, F.A.C.]

TESTING REQUIREMENTS

- A.7. Compliance Test: The Indusco, Inc. fume scrubber with a 56-foot stack servicing Building No. 14 and the Indusco, Inc. fume scrubber with a 40-foot stack serving Buildings No. 2 and No. 7 at the facility must be tested to demonstrate compliance with the visible emissions limitation specified in Specific Condition **A.5.** at least 90 days prior to the expiration date of the operation permit.
[Rule 62-297.310, F.A.C.]

{Permitting Note: Annual testing is not required. The testing that is required is prior to renewal as specified in Specific Condition **A.7.**}

- A.8. Test Requirements: Test 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.9. Test Method: Required test shall be performed in accordance with the following reference method:

EPA Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources: Test shall last at least 30 minutes under conditions which would be expected to yield the highest opacity value.

The above method is described in Rule 62-204.800, F.A.C. No other method may be used unless prior written approval is received from the Department.

[Rules 62-204.800 and 62-297.100, F.A.C.]

- A.10. Operating Rate During Testing: Testing of emissions shall be conducted with the emissions unit operation at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at permitted capacity, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is

SECTION 3. FACILITY-WIDE AND EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

A. EU No. 001 – Chemical Specialty Processes

conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity. [Rule 62-297.310(2), F.A.C.]

NOTIFICATION REQUIREMENTS

- A.11. Test Notification: The permittee shall notify the Compliance Authority, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the permittee.
[Rules 62-4.070(3) and 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

- A.12. 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 must be submitted electronically. Go to the following website for the latest information about electronic submittal of AORs:

<http://www.dep.state.fl.us/air/emission/eaor/default.htm>

[Rule 62-210.370(3), F.A.C.]

- A.13. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit, that is, "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."
[Rule 62-297.310(8), F.A.C.]

- A.14. Monthly Log: The permittee shall keep a monthly log to document compliance with the limitations of Specific Conditions Nos. **A.6**. The log shall be completed by the end of the following month and retained on file at the facility for at least three years. At a minimum, the monthly log shall:

Monthly

- a. Facility name, Facility ID No. (0090103), Emission Unit ID No. and Description (i.e., EU 001, Chemical Specialty Processes);
- b. Month/Year of record;
- c. Consecutive 12-month totals of VOC/HAP containing materials;
- d. Consecutive 12-month totals of total VOCs, total HAPs, and individual HAPs;
- e. Month total of VOC/HAP containing materials; and
- f. Month total of total VOCs, total HAPs; and individual HAPs

SECTION 3. FACILITY-WIDE AND EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

A. EU No. 001 – Chemical Specialty Processes

Note: A consecutive 12-month total is equal to the total for the month in question plus the totals for the eleven months previous to the month in question. A consecutive 12-month total treats each month of the year as the end of a 12-month period. A 12-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.

Monthly logs shall be completed by the end of the following month.

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