



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

RICK SCOTT
GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

FINAL PERMIT

PERMITTEE

Florida Caribbean Distillers, LLC
530 North Dakota Avenue, P.O. Box 1447
Lake Alfred, Florida 33850

Authorized Representative:
Mr. Jose Rivera, Director

Air Permit No. 1050096-007-AF
Permit Expires: 10/16/2018
Florida Distillers Company, Auburndale Plant
Minor Air Operation Permit
Operation Permit Renewal

This is the final permit to renew Federally Enforceable State Operation Permit (FESOP) No. 1050096-005-AF for the operation of an alcohol distillery at the Florida Distillers Company, Auburndale Plant (Standard Industrial Classification No. 2085) located in Polk County at 425 Recker Highway in Auburndale, Florida. The UTM coordinates are Zone 17, 421.4 km East, and 3103.3 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

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

 10/16/2013
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.

Nicolas Abuid, Florida Caribbean Distillers, LLC (Nicolas@cc1companies.com)

Jose Rivera, Florida Distillers Company (Jose.Rivera@floridadistillers.com)

Doug Winter, Florida Distillers Company (Doug.Winter@floridadistillers.com)

Ilia Balcom, FDEP SWD Compliance Assurance Program (Ilia.Balcom@dep.state.fl.us)

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)

10/16/2013
(Date)

SECTION 1. GENERAL INFORMATION (FINAL)

FACILITY AND PROJECT DESCRIPTION

Existing Facility

The existing facility consists of two boilers and distillery operations. The distillery consists of fermenting, distilling, barrel filling, dumping, and storage operations and includes five bottle filling lines and a wastewater treatment plant. The distillery uses citrus and cane molasses to produce beverage alcohol products.

The existing facility consists of the following emissions units (EUs).

Facility ID No. 1050096	
EU ID No.	Emissions Unit Description
002	600 HP Cleaver-Brooks Boiler
003	2500 HP Keeler Boiler
004	Distillery Operations

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 volatile organic compounds (VOC). The emission limitations, restriction on hours of operation, restriction on the type or amount of material combusted, stored or processed in this permit will ensure that the facility's VOC emissions will be below the threshold for a Title V source.

PERMIT HISTORY/AFFECTED PERMITS

This permit replaces Operation Permit No. 1050096-005-AF.

SECTION 2. ADMINISTRATIVE REQUIREMENTS (DRAFT)

1. Permitting Authority - The permitting authority for this project is the Florida Department of Environmental Protection (Department), Southwest District Office's Air Permitting Program. 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: 813-470-5700

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 Assurance Program. 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: 813-470-5700

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

SECTION 2. ADMINISTRATIVE REQUIREMENTS (DRAFT)

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 VE test reports required by Specific Condition No. A.8., if not previously submitted;
 - d. copies of the most recent month and consecutive 12-month period of records/logs specified in Specific Condition Nos. A.9., A.10., and B.4.

[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. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

A. EU Nos. 002 and 003- Process Steam Boilers

This section of the permit addresses the following emissions units (EUs).

EU ID No.	Emissions Unit Description
002	<u>600 HP Cleaver-Brooks Boiler</u> – Boiler No.2 (south) is a 600 HP Cleaver-Brooks Model CB600 process steam boiler fired with either natural gas or No.2 fuel oil with a maximum heat input rate of 25.1 MMBtu/hr.
003	<u>2500 HP Keeler Boiler</u> – Boiler No.3 (north) is a 2500 HP E. Keeler Co. Model DS-10-20, Serial No. 16912, process steam boiler fired with only natural gas at a maximum heat input rate of 95.35 MMBtu/hr.

Boiler Permitting Note: Boiler Nos. 2 and 3 were constructed and permitted prior to 06/09/89 and are therefore not subject to New Source Performance Standard (NSPS) Subpart Dc and not subject to Best Available Control Technology (BACT) Determination required by Rule 62-296.406, F.A.C.

PERFORMANCE RESTRICTIONS

- A.1. Permitted Operating Hours** – The process steam boilers are permitted for continuous operation (i.e. 8,760 hours per year).
[Rules 62-4.070(3) and 62-210.200 (definition of Potential to Emit), F.A.C.]
- A.2. Authorized Fuels** – The authorized fuels for the process steam boilers are as follows:
- EU No.002 – 600 HP Cleaver-Brooks Boiler (Boiler No.2) is permitted to fire either natural gas or new No.2 fuel oil with a sulfur content not to exceed 0.05% by weight. No used or recycled oil shall be fire. The maximum heat input rate to Boiler No.2 shall not exceed 25.1 MMBtu/hr.
(*Note: 25.1 MMBtu/hr corresponds to approximately 24,600 cubic feet per hour of natural gas or 179.5 gallon per hour of No.2 fuel oil.*)
 - EU No.003 – 2500 HP Keeler Boiler (Boiler No.3) is permitted to fire natural gas only. The maximum heat input rate to Boiler No. 3 shall not exceed 95.5 MMBtu/hr.
(*Note: 95.5 MMBtu/hr corresponds to approximately 93,600 cubic feet per hour of natural gas.*)
- (*Maximum Heat Input Rate Note: the boiler heat input rates represent the manufacturer's maximum design heat input rates and therefore this permit does not contain any recordkeeping requirements to document that these rates are not being exceeded.*)
[Rules 62-4.070(3) and 62-296.406, F.A.C.; FESOP No. 1050096-002-AF]

EMISSIONS STANDARDS

- A.3. Visible Emissions** – For each process steam boilers, visible emissions shall not exceed 20% opacity, except for one, two-minute period per hour during which opacity shall not exceed 40%.
[Rule 62-296.406(1), F.A.C.; FESOP No. 1050096-002-AF]

COMPLIANCE TESTING REQUIREMENTS

- A.4. Compliance Tests** – The process steam boilers shall be tested to demonstrate compliance with the visible emissions (VE) standard as required below:

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

A. EU Nos. 002 and 003- Process Steam Boilers

a. EU No. 002 – 600 HP Cleaver-Brooks Boiler (Boiler No.2)

- (1) The Boiler No.2 exhaust stack shall be tested for visible emissions while firing No.2 fuel oil, each federal fiscal year (October 1st – September 30th). If No.2 fuel oil has not been used in this boiler for more than 400 hours in the current federal fiscal year (FFY) and it is not expected to be used in the boiler for more than 400 hours for the remainder of the current FFY, then the VE test could be waived for the boiler during the current FFY on a FFY-by-FFY basis (except during the period prior to applying for renewal of this operation permit). If this test waiver provision is to be invoked, each FFY after September 1st, notification must be sent to the Compliance Authority stating the number of hours the boiler has been fired on No.2 fuel oil (current to September 1st) and that the above requirements for the waiver have been satisfied.
- (2) Between 105 and 180 days prior to the expiration date of this operation permit, a VE test for Boiler No.2 must be conducted while firing No. 2 fuel oil if No.2 has been used more than 400 hours in the current FFY or is expected to be used in the boiler for more than 400 hours in the current FFY, or while firing natural gas otherwise.

b. EU No. 003 – 2500 HP Keeler Boiler (Boiler No.3)

The Boiler No.3 exhaust stack shall be tested for VE between 105 and 180 days prior to the expiration date of this operation permit.

[Rules 62-4.070(3) and 62-297.310, F.A.C.]

A.5. 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.6. 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 <i>(DEP Method 9 shall be used instead of EPA Method 9 and the VE test shall be conducted for a minimum of 60 minutes in duration.)</i>

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.

[Rules 62-297.300 & 62-204.800, F.A.C.; Appendix A of 40 CFR 60; FESOP No. 1050096-002-AF]

NOTIFICATION REQUIREMENT

A.7. 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.)

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

A. EU Nos. 002 and 003- Process Steam Boilers

[Rules 62-4.070(3) and 62-297.310(7)(a)9., F.A.C.]

RECORDKEEPING AND REPORTING REQUIREMENTS

A.8. 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 permittee also shall submit following additional documentation:

- a. The permittee shall submit a statement of the fuel heat input rate and a description of the fuel (i.e. type and sulfur content).
- b. For VE tests conducted while burning fuel oil, the permittee shall submit a copy of the vendor documentation for the most recent fuel oil delivery that is representative of the of the fuel oil type and sulfur content burned during the compliance test (See Specific Condition A.9.).

[Rule 62-297.310(8), F.A.C., FESOP No. 1050096-002-AF]

A.9. Fuel Usage Records – In order to document compliance with Specific Condition No. A.2., the permittee shall maintain a record of the type of fuel (i.e. natural gas or No.2 oil) fired in Boiler No.2 during each period of operation. The records shall include the total hours of operation for each period of burning oil and a monthly total of oil-fired operating hours for each calendar month. These records shall be recorded in a permanent form suitable for inspection by the Department upon request, and shall be retained at the facility for at least a three-year period.

[Rule 62-4.070 (3), F.A.C.; FESOP No. 1050096-002-AF]

A.10. Fuel Oil Sulfur Content Records – In order to document continuing compliance with Specific Condition No. A.2., records shall be maintained of the vendor supplied date for sulfur content, in percent by weight, of each shipment of No.2 fuel oil delivered for use in Boiler No.2. The above records shall be maintained at the facility for a minimum of the most recent three-year period and made available to the Department upon request.

[Rule 62-4.070(3), F.A.C.; FESOP No. 1050096-002-AF]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

B. EU No. 004 -Distillery Operations

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

EU ID No.	Emissions Unit Description
004	<p><u>Distillery Operations</u> – Distillery operations at the facility consists of fermenting, distilling, barrel filling, dumping, and storage operations and includes five bottle filling lines, and a wastewater treatment plant.</p> <p>The process begins with citrus and cane molasses, which is delivered to the facility by tanker trucks and pumped into holding tanks. Molasses is pumped from the storage tanks through a mixing station where it is diluted by the addition of water. An enzyme and yeast are added to the diluted molasses and it is placed in the fermenter. In the fermenter, a chemical conversion takes place; the resulting mixture is called beer. In the distillation process, water and solids are separated from the alcohol in a beer still tower. The solids which collect in the bottom of the still (spent stillage or residuum) are concentrated by evaporation and sold. The separated alcohol (approximately 80% alcohol) is pumped to the appropriate Hi-Wine storage tank. From the Hi-Wine storage tanks, the alcohol is pumped to the aldehyde column and then the rectifying column for final distillation and concentration to a final alcohol content of approximately 95%. The final product is placed in an intermediate storage tank, called a receiver, for grading and testing, and then it is placed in cistern storage tanks. From the cistern storage tanks, the product is placed into barrels for aging (in the aging warehouse), or shipped out of the plant by rail or truck. After the aging is complete, the barrels are dumped and the product is pumped through holding tanks, processing tanks, and bottling tanks (mixing, agitation and blending) before being bottled on one of the five bottling lines (Bottle Filling Lines A, B, C, D, and E). After being filled, the bottles are labeled using inks and glues.</p> <p>Wastewater from the process, spills, and leaks is drained throughout the plant to a wastewater treatment plant for mixing and agitation, and then treatment in a reactor.</p> <p>Fermentation, storage, evaporation, and transfers during the distillation process; labeling the bottles using inks and glues; and treatment of wastewater are all sources for volatile organic compound emissions at the facility.</p>

PERFORMANCE RESTRICTIONS

B.1. Permitted Operating Hours – Operating hours for the distillery operations shall not exceed 7,560 hours per any consecutive 12-month period.
[Rule 62-210.200 (definition of Potential to Emit), F.A.C.; FESOP No. 1050096-002-AF]

B.2. Volatile Organic Compound Emission Limit – Total volatile organic compound (VOC) emissions from the distillery operations (EU No.004) shall not exceed 96.3 tons per any consecutive 12-month period. The means for determining compliance with this condition shall be the production rate limitation of Specific Condition No.B.3.

(Permitting Note: Due to the nature of the alcohol manufacturing process, this facility’s HAP emissions are limited to below the generic exemption levels by the VOC limit above; HAP emissions are not further limited by Specific Conditions or recordkeeping requirements.)

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

B. EU No. 004 -Distillery Operations

[Rule 62-210.200 (definition of Potential to Emit), F.A.C.; FESOP No.1050096-002-AF]

- B.3.** Production Rate Limit – The total distillation column production rate shall not exceed 6.30 million proof gallons ethanol per any consecutive 12-month period.

[Rule 62-210.200 (definition of Potential to Emit), F.A.C.; FESOP No.1050096-002-AF]

RECORDKEEPING AND REPORTING REQUIREMENTS

- B.4.** Operation/Production Records – In order to document compliance with Specific Condition Nos. B.1, B.2. and B.3., the permittee shall maintain a record of the following:

- a. Daily hours of distillery operations;
- b. A monthly summary of the monthly operating hours for the distillery and for the most recent consecutive 12-month period;
- c. Daily total distillation column production, in proof gallons ethanol per day; and
- d. A monthly summary of the total distillation column production rate for that month (proof gallons ethanol per month) and for the most recent 12 consecutive month period (proof gallons ethanol per consecutive 12-month period).

These records shall be recorded in a permanent for suitable for inspection by the Department upon request, and shall be retained at the facility for at least a three-year period.

[Rule 62-4.070(3), F.A.C.; FESOP No. 1050096-002-AF]