



Florida Department of Environmental Protection

Southwest District
13051 N. Telecom Parkway
Temple Terrace, Florida 33637-0926

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

PERMITTEE:

Vitality Foodservice Inc.
P.O. Box 97
Dade City, FL 33526

Permit No: 1010002-010-AF

County: Pasco

Effective Date: 06/14/2007

Expiration Date: 06/15/2009

Project: Coffee Roasting Facility

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-204, 62-210, 62-212, 62-213, 62-296, 62-297, and Chapter 62-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or on file with the Florida Department of Environmental Protection:

This permit authorizes the operation of a coffee roasting facility with the following revised list of emissions units (E.U.'s):

Two (2) coffee roasting lines - where each line consists of a coffee roaster, a bean cooler, and a coffee extractor. (Line No. 1 E.U. Nos. 026, 032, and 036 respectively. Line No. 2 E.U. Nos. 034, 035 and 033 respectively.) These emission sources are described below:

Roasters (EU Nos. 026 and 034) - Each coffee roaster is only fired with natural gas at a maximum heat input rate of 1.0 MMBTU/hour. The maximum input rate of coffee beans to each roaster is 900 pounds/hour (3 batches/hour where 1 batch equals approx. 300 pounds) and 3,285 tons per any consecutive 12-month period. Particulate emissions from each roaster are controlled by its own cyclone.

Bean coolers (EU Nos. 032 and 035) - Based on the 900 pounds/hour input rate of coffee beans to the roaster, the expected input rate of roasted coffee beans to each cooler is 758 pounds/hour and 2,803 tons per any consecutive 12 month period. Particulate emissions from each cooler are controlled by its own cyclone.

Extractors (EU Nos. 036 and 033) - The maximum input rate of cooled coffee beans to each extractor is 900 pounds/hour and 2,803 tons per any consecutive 12-month period. Particulate emissions from each extractor are controlled by a common cyclone. Simultaneous extractor blows from the No. 1 and No. 2 extractors to the common cyclone are prohibited.

(Permitting Note: Although each coffee roasting line normally functions as a continuous line, each cooler transfers the coffee beans to a common bank of 4 storage bins each capable of holding approximately 10 tons of beans before transferring the beans to the extractors.)

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Emission Sources/Activities Exempt from Air Permitting

Process steam for this facility is provided by a 200 HP Johnson Model 518-AG natural gas fired boiler which has a maximum heat input capacity of 8.4 MMBtu/hour. This boiler is exempt from air permitting in accordance with the categorical exemption contained in Rule 62-210.300(3)(a)33., F.A.C. (fossil fuel fired steam generators with a capacity less than 10 MMBtu/hour burning natural gas only).

*(**Title V Applicability Note:** Based on the limitations contained in this permit, this facility is a synthetic minor non-Title V source.)*

Facility Information Summary

Location: 15000 U.S. Highway 301, Dade City

UTM: 17-383.5 E 3139.2 N **Latitude:** 28°22'32" **Longitude:** 82°11'20"

Facility ID No: 1010002

Emission Unit ID Nos.*:

- 026 Line No. 1 Roaster
- 032 Line No. 1 Bean Cooler
- 033 Line No. 2 Extractor
- 034 Line No. 2 Roaster
- 035 Line No. 2 Bean Cooler
- 036 Line No. 1 Extractor

(Emission Unit Notes: E.U. Nos. 002, 003, 010 – 025, 027 – 030 are all emission units that have been shutdown/removed (permanent shutdown date 03/01/99). As part of the operation permit renewal issued in June of 2004 (permit No. 1010002-008-AF), E.U. No. 031, Spray Paint Booth for Company Vehicles and Drums, was taken off the permit as it was no longer in operation. As of this operation permit revision (permit No. 1010002-010-AF), EU Nos. 005, 006, and 007, three natural gas fired steam boilers, are removed from the facility operation permit as they are no longer used.)*

Note: Please reference Permit No. and Emission unit ID No. in all correspondence, test report submittals, applications, etc.

Affected Permits:

This permit replaces permit No. 1010002-008-AF (the previous facility operation permit.)

Attachments to This Permit:

General Conditions (version dated 11/1/05)

SPECIFIC CONDITIONS:

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1. General Conditions - A part of this permit is the attached 15 General Conditions.
[Rule 62-4.160, F.A.C.]

2. Other Requirements - Issuance of these permits does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297, F.A.C., or any other requirements under federal, state or local law.
[Rule 62-210.300, F.A.C.]

Operation Limitations

3. Permitted Operating Hours - The hours of operation for each of the emission sources at this facility are not restricted, (i.e. permitted for 8,760 hours/year).
[As requested by permittee; permit Nos. 1010002-007-AC and 1010002-006-AF]

4. Permitted Fuel - The coffee roasters shall be fired only with natural gas.
[Rule 62-210.200 (potential to Emit), F.A.C.; permit Nos. 1010002-007-AC and 1010002-006-AF]

5. Maximum Process Rate – The process rate for each coffee roasting line is limited as shown below:

- a. The maximum input rate of coffee beans to each roaster shall not exceed 900 pounds per hour on a daily average basis (this is based on 3 batches/hour where 1 batch equals approximately 300 pounds.)

(Compliance Testing Note: The 900 lbs./hr. input rate limitation for each roaster will be used as that line's cooler's and extractor's permitted capacity for testing purposes, since the 3 emission points per line function, for all practical purposes, as a continuous line.)

- b. The total input rate of coffee beans to each roaster shall not exceed 3,285 tons per any consecutive 12-month period.

[Rule 62-210.200 (potential to Emit), F.A.C.; permit Nos. 1010002-007-AC and 1010002-006-AF]

6. Extractor Operating Limitations - Simultaneous extractor blows from the Line No. 1 and Line No. 2 extractors to the extractors' common cyclone are prohibited.
[Permit Nos. 1010002-007-AC and 1010002-006-AF]

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Emission Limitations

7. Particulate Matter Emission Limitations - Particulate matter (PM) emissions from each coffee roasting line shall not exceed the following:

Source	PM Pounds/hour	Tons per any consecutive 12 month period
Roaster	2.19	8.5
Cooler	1.98	7.8
Extractor	2.19	8.5 (combined total for both lines)

(Compliance Note: Compliance with the above PM limitations will be documented by demonstrating compliance with a VE limitation of 5% opacity (see Specific Condition No. 8.).)

[Rule 62-210.200 (potential to Emit), F.A.C.; permit Nos. 1010002-007-AC and 1010002-006-AF]

8. Circumvention of Control Equipment and Cyclone Visible Emission Limitation - The permittee shall not circumvent any air pollution control device or allow the emissions of air pollutants without the applicable air pollution control devices (cyclones) operating properly. In order to ensure proper operation, and in accordance with a provision established in the prior combined construction and FESOP operation permit to show compliance with the particulate matter (PM) limitations in lieu of PM testing*, visible emissions from each of the cyclones shall not exceed 5% opacity**.

[Rules 62-210.650, and 62-297.620, F.A.C.; permit 1010002-007-AC, 1010002-006-AF]

(Permitting Note: The previous (combined) construction and FESOP permit included a provision that if, during the compliance tests conducted in the year 2000, a visible emission test was conducted concurrently with each run of a cyclone's particulate matter test, and the particulate matter test results were less than 80% of the associated allowable particulate matter emission limitation and the visible emission test results are 5% or less, then the Department would grant that in lieu of future particulate matter stack testing for that cyclone, visible emissions shall not exceed 5% opacity. These tests were conducted on 5/3 and 5/4/00 and the requirements were met for all of the cyclones, thereby establishing the alternate 5% visible emissions standard for each of the coffee roaster lines cyclones. (ASP Note: The Department considers that such a demonstration as required by the previous facility permit re-validates the Alternate Sampling Procedures (ASP) (OGC File No. 90-0821) dated May 23, 1990 for Coffee Roasting Line No. 2.))*

*(** Compliance Note: If the presence of any uncombined water or condensed volatile organic compounds (VOCs) are the only reason for failure to meet the visible emission standard given in this condition, such failure shall not be a violation of this permit condition.)*

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9. General Particulate Emission Limiting Standards. General Visible Emissions Standard - Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, 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 20 percent opacity. EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C.

[Rules 62-296.320(4)(b)1. & 4., F.A.C.]

10. General Pollutant Emission Limiting Standards: Unconfined Emissions of Particulate Matter - All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provisions in Rule 62-296.310(3), 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.

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

11. General Pollutant Emission Limiting Standards. 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 is 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), F.A.C.]

12. Excess Emissions - Excess Emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited.

[Rule 62-210.700(4), F.A.C.]

Compliance Testing Requirements

13. Coffee Roaster Cyclones VE Testing - The coffee roasting lines cyclones (5) shall each be tested for visible emissions (VE) annually during each fiscal year (October 1 - September 30), with a target period of 60 days prior to or on the date of March 10 of each year.

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

14. Visible Emissions (VE) Test Method - The visible emission tests shall be conducted in accordance with EPA Methods 9, as contained in 40 CFR 60, Appendix A, and Rule 62-297.401, F.A.C. Each visible emission test period shall be conducted for a minimum of thirty (30) minutes. The visible emission test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. The minimum requirements for stationary point source emission test procedures and reporting shall be in accordance with Chapter 62-297, F.A.C.

[Rules 62-297.401 and 62-297.310(4)(a)2., F.A.C.]

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15. Test Date Notification - The permittee shall notify the Air Compliance Section of the Southwest District Office of the Department 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.

[Rule 62-297.310(7)(a)9., F.A.C.]

16. Operation of Coffee Roasting Lines During Testing - Testing of emissions from the coffee roasting line

cyclones shall be conducted during continuous operation of the line at a rate within 90 - 100% of the 900 pounds/hour maximum permitted input rate of coffee beans to the roaster, if feasible. Compliance tests submitted for rates less than 90% of maximum permitted process rate shall automatically amend the permit to reflect the tested rate plus 10% as the currently permitted process rate. Once the unit is so limited, operation at a higher rate is allowed for no more than 15 consecutive days for the purposes of additional compliance testing to regain the authority to operate at the permitted capacity. (*Clarification: When a unit is limited to an operating rate of 110% of the test rate, the permittee may provide a 15-day notice of its intent to conduct an additional test. The notice may specify a 15-day period during which the unit will be allowed to operate at a higher rate for the purposes of testing. For example, the first five days of the 15-day period may be used to bring the unit up to a higher production level; the next five days may be used for the testing itself.*) The test results shall be submitted to the Air Compliance Section of the Southwest District Office of the Department within 45 days of testing. Acceptance of the test by the Department will automatically constitute an amended permit at the higher tested rate plus 10%, but in no case shall the maximum permitted process input rate (see Specific Condition No. 5.) be exceeded. Each test report shall include the following:

- a. identification of the coffee roasting line and cyclone being tested (i.e. equipment description and E.U. No.);
- b. the maximum input rate of coffee beans to the roaster (lbs/hour) during the test period;
- c. a copy of the daily Coffee Roaster Process Rate Records log (see Specific Condition No. 18.) for the day the test was conducted; and
- d. a copy of the monthly Coffee Roaster Process Rate Records (see Specific Condition No. 18.) for the calendar month the test was conducted.

Failure to include the above information with the test report, or operating at conditions which do not reflect the normal operating conditions, may invalidate the test.

[Rules 62-297.310(2) and 62-4.070(3), F.A.C.]

17. Special PM/VE Compliance tests - Should the Department have reason to believe the particulate matter (PM) emission standard is not being met, or that the day-to-day operating process rate is significantly (>10%) greater than the most recently tested rate, the Department may require that compliance with the particulate and/or visible emission standards be demonstrated by stack testing in accordance with Rule 62-297, F.A.C., under operating conditions stipulated by the Department.

[Rules 62-297.310(7)(b), and 62-297.620(4), F.A.C.]

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Recordkeeping Requirements

18. Coffee Roaster Process Rate Records - In order to document compliance with the maximum permitted roaster process input rate limit of Specific Condition No. 5., the permittee shall maintain for each coffee roasting line the following records:

DAILY

- a. identification of the coffee roasting line, and date of record;
- b. the roaster's daily hours of operation;
- c. the total daily quantity of coffee beans input to the roaster in pounds;
- d. the average daily coffee bean input rate to the roaster in pounds/hour based on b. and c. above;

MONTHLY

- e. identification of the coffee roasting line, and month of record;
- f. the monthly total quantity of coffee beans input to the roaster in tons;
- g. the total quantity of coffee beans to the roaster for the most recent consecutive 12-month period in tons.

Daily records shall be completed by the next business day, and monthly records shall be completed no later than 15 days after the end of the month. These records shall be recorded on site in a permanent form suitable for inspection by the Department upon request, and shall be retained for at least the most recent three (3) year period.

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

Reporting Requirements

19. Annual Operating Report (AOR) - The permittee shall submit to the Air Program of the Southwest District Office of the Department each calendar year on or before March 1, 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 Air Compliance section of the Southwest District Office of the Department.

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

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20. Operation Permit Renewal Application - A completed application to renew this operation permit shall be submitted to the Air Program of the Southwest District Office of the Department no later than 60 days prior to the expiration date of this permit. To properly apply for an operation permit, the applicant shall submit the following:

- a. the appropriate operation permit application form (*see current version of Rule 62-210.900, F.A.C., and/or FDEP Division of Air Resource Management website at: <http://www.dep.state.fl.us/air/>*);
- b. the appropriate operation permit application fee (*see Rule 62-4.050(4)(a), F.A.C.*);
- c. copies of the most recent visible emissions (VE) test reports; and
- d. copies of the records specified Specific Condition No. 18 (Coffee Roaster Process Rate Records) for the most recent 2 months.

[Rules 62-4.050, 62-4.070(3), 62-4.090, 62-210.300(2), 62-210.900, and 62-297.310(7)(a)1., F.A.C.]

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION



Mara Grace Nasca
District Air Program Administrator
Southwest District