**Kraft Foods Global, Inc.**
**Maxwell House Coffee**
**Facility ID No.: 0310004**
**Duval County**

# Title V Air Operation Permit Renewal

**DRAFT Permit Project No.: 0310004-018-AV**
**Renewal of Title V Air Operation Permit No.: 0310004-016-AV**


PERMITTING & COMPLIANCE AUTHORITY:
NEIGHBORHOODS DEPARTMENT
ENVIRONMENTAL QUALITY DIVISION
214 N. Hogan Street, 7th Floor
JACKSONVILLE, FL 32202
TELEPHONE: (904) 255-7100
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**Title V Air Operation Permit Renewal**

**DRAFT Permit No.: 0310004-018-AV**
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**Title V Air Operation Permit Renewal**

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Table 1-1, Summary of Air Pollutant Standards and Terms
Table 2-1, Summary of Compliance Requirements
Best Available Control Technology Determination for (2) Boilers
Precautions to Prevent Unconfined Particulate Matter

**Permittee:**
Kraft Foods Global, Inc., Maxwell House Coffee
735 East Bay Street
Jacksonville, FL 32202

**DRAFT Permit No.:** 0310004-018-AV
**Facility ID No.:** 0310004
**SIC Nos.:** 20
**Project:** Title V Air Operation Permit Renewal

The purpose of this permit is to renew Title V Air Operation Permit No. 0310004-016-AV and to incorporate the terms and conditions of Air Construction Permit No. 0310004-017-AC. The existing facility is located at 735 East Bay Street, Jacksonville, Duval County, FL; UTM Coordinates: Zone 17, 437.5 km East and 3354.7 km North; Latitude: 30° 19' 27" North and Longitude: 81° 39' 00" West.

This Title V Air Operation Permit Renewal is issued under the provisions of Chapter 403, Florida Statutes (FS), and Florida Administrative Code (FAC) Chapters 62-4, 62-210 and 62-213. The above named permittee is hereby authorized to operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the Neighborhoods Department, Environmental Quality Division (Permitting Authority), in accordance with the terms and conditions of this permit.

**Referenced attachments made a part of this permit:**
Appendix I-1, List of Insignificant Emissions Units and/or Activities
Appendix SS-1, Stack Sampling Facilities
Appendix TV-6, Title V Conditions version dated 06/23/06
Best Available Control Technology Determination for (2) Boilers
Precautions to Prevent Unconfined Particulate Matter

**Effective Date:**
**Renewal Application Due Date:**
**Expiration Date:**

**Neighborhoods Department**
**Environmental Quality Division**

_____
Vincent A. Seibold, P.E.,
Division Chief

VAS/GHB

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# Section I. Facility Information.

## Subsection A. Project and Facility Description.

This permit is to renew Title V Air Operation Permit No. 0310004-016-AV and to incorporate the terms and conditions of Air Construction Permit No. 0310004-017-AC (Emission Unit No. 541 was eliminated from the permit and Emission Unit No. 529 was modified, now includes former EU No. 541). Specific Condition No. 11 was eliminated from EU Nos. 503, 504, and 506, and Specific Condition No. 12 was eliminated from EU No. 509. Additionally, there were changes made to Emission Unit No. 530, and Emission Unit No. 531 is now listed as an insignificant emission unit. Also, Emission Unit Nos. 505, 520, 521, 522, 523, 541, 553 and 554 have been removed from the plant, and subsequently eliminated from the permit.

This facility produces roasted coffee with batch and continuous roasters. The facility consists essentially of material handling, cleaning, roasting, cooling, grinding, and packaging operations.

Also included in this permit are miscellaneous insignificant emissions units and/or activities.

Based on the Title V Air Operation Permit Renewal application received June 28, 2012, this facility is not a major source of hazardous air pollutants (HAPs).

## Subsection B. Summary of Emissions Unit ID No(s). and Brief Description(s).

| E.U. ID No. | Brief Description |
|---|---|
| 501 | GFM Boiler |
| 502 | GFIC Boiler |
| 503 | Thermalo Roasters |
| 504 | Probat Roasters |
| 506 | Batch Roasters |
| 509 | Hot Chaff System |
| 510 | (22) Bunkers |
| 511 | GFM Bunkers |
| 512 | Thermalo Green Bean Conveying System |
| 513 | Thermalo Cooling Cars |
| 514 | Thermalo Destoners |
| 515 | Thermalo Scale |
| 516 | Probat Green Bean Feed System |
| 517 | Probat Destoner Cooling Cars |
| 518 | Probat Cold Chaff System |
| 519 | Probat Scales |
| 524 | Batch Green Bean Storage Silos |
| 525 | Batch Roasters Green Bean Feed System |
| 526 | Batch Cooling Cars |
| 527 | Batch Destoners |
| 528 | BAR Systems Nos. 1, 2 & 3 |
| 529 | Whole Roasted Bean Storage and Coffee Bean Reclaim System |
| 530 | Gevalia Packaging Machines |
| 532 | GFIC Sugar Unloading |
| 533 | GFIC Minors Dump Station Receiving |
| 534 | GFIC Majors Dump Station Receiving |
| 535 | GFIC Finished Mix |
| 536 | GFM Surge Bins |

| EU ID No. | Brief Description |
|---|---|
| 537 | GFM Bean Separator |
| 538 | GFM Process |
| 539 | Green Coffee Silos |
| 540 | Green Coffee Silo Airveying |
| 543 | Rework Station |
| 550 | GFM Drying Zone 1 |
| 551 | GFM Drying Zone 2 |
| 552 | GFM Drying Zone 3 |
| 555 | Fire Pump Diesel Engine |

**Note: Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.**

### Subsection C. Relevant Documents.

The documents listed below are not a part of this permit; however, they are specifically related to this permitting action.

These documents are provided to the permittee for information purposes only:
Table 1-1, Summary of Air Pollutant Standards and Terms
Table 2-1, Summary of Compliance Requirements
Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers
Appendix H-1, Permit History
Appendix LR-1, Local Rule Index

These documents are on file with the Permitting Authority:
Title V Air Operation Permit Renewal Application received June 28, 2012
Title V Air Operation Permit No. 0310004-016-AV
Air Construction Permit No. 0310004-017-AC
Letter from Mr. George Whitmer, Whitmer Environmental Services, Inc., requesting the deletion of specific conditions regarding recordkeeping and reporting received July 16, 2012
Letter from Mr. George Whitmer, Whitmer Environmental Services, Inc., requesting a permit determination received May 31, 2012
Electronic mail correspondence from Mr. George Whitmer, Whitmer Environmental Services, Inc., regarding the removal of emission units from the Maxwell House Coffee Plant, received August 24, 2012

## Section II. Facility-wide Conditions.

**The following conditions apply facility-wide:**

1. Appendix TV-6, Title V Conditions, is a part of this permit.
   Permitting note: Appendix TV-6, Title V Conditions, is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided one copy when requested or otherwise appropriate.

2. 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 that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, FAC, and Rule 2.1201, JEPB.
   [Rule 62-296.320(4)(b)1., FAC, and Rule 2.1101, JEPB]

3. Prevention of Accidental Releases (Section 112(r) of CAA).
   a. The permittee shall submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center when, and if, such requirement becomes applicable; and
   b. The permittee shall submit to the Permitting Authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), FAC.
   [40 CFR 68]

4. General Pollutant Emission Limiting Standards. Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. The permittee shall allow no person to store, pump, handle, process, load, unload, or use in any installation, VOC or OS without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Permitting Authority.
   [Rule 62-296.320(1), FAC, and Rule 2.1101, JEPB]

5. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter emissions 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 those submitted in the attached form entitled "Precautions to Prevent Unconfined Particulate Matter" submitted by the permittee.
   [Rule 62-296.320(4)(c), FAC, and Rule 2.1101, JEPB]

6. Insignificant Emissions Units and/or Activities. Appendix I-1, List of Insignificant Emissions Units and/or Activities, is part of this permit.
   [Rules 62-213.440(1), 62-213.430(6), and 62-4.040(1)(b), FAC, and Rules 2.501 and 2.1401, JEPB]

7. Permittee shall notify the Permitting Authority fifteen (15) days prior to the date of each formal compliance test conducted for an emissions unit.
   [Rule 62-297.310(7)(a)9., FAC, and Rule 2.1201, JEPB]

8. Stack sampling facilities and control equipment shall be provided with a method of access that is safe and readily accessible.
   [Rule 62-297.310(6), FAC, and Rule 2.1201, JEPB]

9. Testing of emissions shall be conducted with the Emissions Unit operating at permitted capacity. Permitted capacity is defined as 90-100 percent of the maximum operating rate allowed by the permit. If it is impracticable to test at permitted capacity, then Emissions Units may be tested at less capacity; in this case subsequent Emissions Unit operation is limited to 110 percent of the test load (90 percent for cullet usage) until a new test is conducted. Once the Emissions Unit is so limited, then operation at higher capacities (lower capacities for cullet usage) is allowed for no more than 15 consecutive days for the purposes of additional compliance testing to regain the permitted capacity in the permit.
   [Rule 62-297.310(2), FAC, and Rule 2.1201, JEPB]

10. Copies of the test report(s) shall be filed with the Permitting Authority within forty-five (45) days of completion of testing.
[Rule 62-297.310(8)(b), FAC, and Rule 2.1201, JEPB]

11. When appropriate, any recording, monitoring or reporting requirements that are time-specific shall be in accordance with the effective date of the permit, which defines day one.
[Rule 62-213.440, FAC and Rule 2.501, JEPB]

12. The permittee shall submit all compliance related notifications and reports required of this permit to:

Neighborhoods Department
Environmental Quality Division
Ed Ball Building, 214 N. Hogan Street, 7th Floor
Jacksonville, FL 32202
Telephone: (904) 255-7100
Fax: (904) 588-0518

13. Any reports, data, notifications, certifications, and requests required to be sent to the United States Environmental Protection Agency should be sent to:

United States Environmental Protection Agency
Region 4
Air, Pesticides & Toxics Management Division
Air & EPCRA Enforcement Branch, Air Enforcement Section
61 Forsyth Street
Atlanta, GA 30303-8960
Telephone: (404) 562-9155
Fax: (404) 562-9163

14. Statement of Compliance. The annual statement of compliance pursuant to Rule 62-213.440(3)(a)2., FAC, shall be submitted to the Permitting Authority and EPA within 60 (sixty) days after the end of the calendar year using DEP Form No. 62-213.900(7), FAC. {Permitting Note: This condition implements the requirements of Rules 62-213.440(3)(a)2. & 3., F.A.C. (see Condition 51. of Appendix TV-6, Title V Conditions)}
[Rules 62-213.440(3) and 62-213.900, FAC, and Rule 2.501, JEPB]

15. Certification by Responsible Official (RO). In addition to the professional engineering certification required for applications by Rule 62-4.050(3), F.A.C., any application form, report, compliance statement, compliance plan and compliance schedule submitted pursuant to Chapter 62-213, F.A.C., shall contain a certification signed by a responsible official that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Any responsible official who fails to submit any required information or who has submitted incorrect information shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary information or correct information.
[Rule 62-213.420(4), FAC., and Rule 2.501, JEPB]

16. Excess emissions resulting from startup, shutdown, or malfunction of any emission unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Permitting Authority for longer duration. 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. In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Permitting Authority in accordance with

Rule 62-4.130, FAC and Rule 2.1401, JEPB. A full written report on the malfunctions shall be submitted to the Permitting Authority in a quarterly report, if requested by the Permitting Authority.
[Rule 62-210.700(1), (4), and (6), FAC, and Rule 2.201, JEPB]

17. The permittee shall submit reports of any required monitoring at least every six (6) months. All instances of deviations from permit requirements shall be clearly identified in such reports. The permittee shall report in accordance with the requirements of Rule 62-210.700(6), FAC, Rule 62-4.130, FAC, Rule 2.201, JEPB, and Rule 2.1401, JEPB, deviations from permit requirements, including those attributable to upset conditions as defined in the permit. Reports shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All reports shall be accompanied by a certification by a responsible official, pursuant to Rule 62-213.420(4), FAC, and Rule 2.501, JEPB. Unless otherwise specified in **a permit, rule, or order;** reports shall cover the period of January through June (report due on or before September 1) and July through December (report due on or before March 1).
[Rule 62-213.440(1)(b)3., FAC, and Rule 2.501, JEPB]

18. Annual Operation Report. Permittee shall submit an annual operating report to the Permitting Authority for this (these) emission unit(s) on the form(s) supplied for each calendar year by April 1 of the following year.
[Rule 62-210.370(3), FAC, and Rule 2.301, JEPB]

19. Annual Emissions Fee Form and Fee. The annual Title V emissions fees are due (postmarked) by March 1st of each year. The completed form and calculated fee shall be submitted to: Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida 32315-3070. The forms are available for download by accessing the Title V Annual Emissions Fee On-Line Information Center at the following Internet web site: http://www.dep.state.fl.us/air/emission/tvfee.htm.
[Rule 62-213.205, FAC and Rule 2.501, JEPB]

20. Notification of Startup. The owners or operator of any emissions unit or facility which has a valid air operation permit which has been shut down more than one year, shall notify the Permitting Authority in writing of the intent to start up such emissions unit or facility, a minimum of 60 days prior to the intended startup date.

    a. The notification shall include information as to the startup date, anticipated emission rates or pollutants released, changes to processes or control devices which will result in changes to emission rates, and any other conditions which may differ from the valid outstanding operation permit.
    b. If, due to an emergency, a startup date is not known 60 days prior thereto, the owner shall notify the Permitting Authority as soon as possible after the date of such startup is ascertained.

    [Rule 62-210.300(5), F.A.C. and Rule 2.301, JEPB]

21. Permit Renewal. For purposes of a permit renewal, a timely application is one that is submitted 225 days before the expiration of a permit that expires on or after June 1, 2009.
[Rule 62-213.420(1)(a)2., F.A.C. and Rule 2.501, JEPB]

**The following Facility-wide conditions are not federally enforceable:**

22. General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. The permittee shall not cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
[Rule 62-296.320(2), FAC, and Rule 2.1101, JEPB]

23. The facility shall be subject to the City of Jacksonville Ordinance Code, Title X, Chapter 360 [Environmental Regulation], Chapter 362 [Air and Water Pollution], Chapter 376 [Odor Control], and JEPB Rule 1 [Final Rules with Respect to Organization, Procedure, and Practice].

24. The facility shall be subject to JEPB Rule 2, Parts I through VII, and Parts IX through XIV.

# Section III. Emissions Unit(s) and Conditions.

## Emissions Unit No. 501 – GFM Boiler

Emissions Unit Description – The operation of a Cleaver Brooks Model CD600 natural gas fired boiler. The boiler shall be used to generate steam and hot water for the green flavor modification process.

### Essential Potential to Emit (PTE) Parameters

1. The maximum heat input shall be limited to 25.1 x $10^6$ Btu per hour firing natural gas.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

### Emission Limitations and Standards

3. Sulfur dioxide ($SO_2$) and particulate matter (PM) emissions shall be controlled by use of natural gas in accordance with the Best Available Control Technology (BACT) Determination.
   [Rules 62-296.406(2) and (3), FAC, and Rule 2.1101, JEPB]

4. Visible emissions (VE) shall be limited to 20 percent opacity except that VE not exceeding 40 percent opacity are allowed for up to 2 minutes in any one hour period.
   [Rule 62-296.406(1), FAC, and 2.1101, JEPB]

5. 40 CFR 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, and 40 CFR 60, Subpart A, General Provisions, Reporting Requirements, Notification Requirements, and Standards of Performance shall apply to the source described herein.
   [Rule 62-204.800, FAC, and Rule 2.501, JEPB]

### Test Methods and Procedures

6. Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method (RM) 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
   [Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

7. VE shall be tested three (3) years from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

### Recordkeeping and Reporting Requirements

8. Reports and recordkeeping shall be in accordance with the provisions of 40 CFR 60.48c(a) and (g).
   [Rule 62-204.800, FAC, and Rule 2.501, JEPB]

9. Records shall be maintained for a minimum of five (5) years and made available to the Permitting Authority upon request.
   [Rule 62-213.440(1)(b), FAC, and Rule 2.501, JEPB]

## Emissions Unit No. 502 – GFIC Boiler

Emissions Unit Description – The operation of a Cleaver Brooks Model CD700-80 natural gas fired boiler. The boiler shall be used to generate hot water for the GFIC system.

### Essential Potential to Emit (PTE) Parameters

1. The maximum heat input shall be limited to 3.35 x $10^6$ Btu per hour firing natural gas.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

### Emission Limitations and Standards

3. $SO_2$ and PM emissions shall be controlled by use of natural gas in accordance with the BACT Determination.
   [Rules 62-296.406(2) and (3), FAC, and Rule 2.1101, JEPB]

4. VE shall be limited to 20 percent opacity except that VE not exceeding 40 percent opacity are allowed for up to 2 minutes in any one hour period.
   [Rule 62-296.406(1), FAC, and 2.1101, JEPB]

### Test Methods and Procedures

5. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
   [Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

6. VE shall be tested three (3) years from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 503 – Thermalo Roasters

Emissions Unit Description - (2) batch coffee bean roasters.

Control Device - (2) – cyclone in series with afterburner.

### Essential Potential to Emit (PTE) Parameters

1. The maximum process rate for each roaster shall not exceed 3,100 pounds of coffee beans per hour.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate for each roaster is 1,828 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

### Emission Limitations and Standards

4. PM emissions for each roaster shall not exceed 0.029 grain per dry standard cubic foot, 0.46 pound per hour, and 2.00 tons per year.
   [Applicant's Request, Rule 62-296.712(2), FAC, and Rule 2.1101, JEPB]

5. VE for each roaster shall not exceed 5 percent opacity.
   [Rule 62-296.712(2), FAC, and Rule 2.1101, JEPB]

**Test Methods and Procedures**

6. Testing for demonstration of compliance shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
   [Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
   [Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. PM and VE shall be tested annually (alternating units) from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

**Monitoring of Operations**

9. Each afterburner shall maintain a minimum operating temperature of 800 $^{o}$F.
   [Rule 62-296.700(4)(a)6., FAC, and Rule 2.1101, JEPB]

10. The owner or operator shall install, calibrate, maintain, and operate a temperature measurement device for each afterburner.
    [Rule 62-296.700(4)(a)6., FAC, and Rule 2.1101, JEPB]

## Emissions Unit No. 504 – Probat Roasters

Emissions Unit Description - (10) batch coffee bean roasters.

Control Device - (10) – cyclone in series with afterburner.

**Essential Potential to Emit (PTE) Parameters**

1. The maximum process rate for each roaster shall not exceed 3,100 pounds of coffee beans per hour.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate for each roaster is 3,850 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

**Emission Limitations and Standards**

4. PM emissions for each roaster shall not exceed 0.021 grain per dry standard cubic foot, 0.68 pound per hour, and 3.00 tons per year.
   [Applicant's Request, Rule 62-296.712(2), FAC, and Rule 2.1101, JEPB]

5. VE for each roaster shall not exceed 5 percent opacity.
   [Rule 62-296.712(2), FAC, and Rule 2.1101, JEPB]

**Test Methods and Procedures**

6. Testing for demonstration of compliance shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
[Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. PM and VE shall be tested annually on two (2) roasters (alternating units) from the date of May 1, 2012.
[Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

**Monitoring of Operations**

9. Each afterburner shall maintain a minimum operating temperature of 800 $^{o}$F.
[Rule 62-296.700(4)(a)6., FAC, and Rule 2.1101, JEPB]

10. The owner or operator shall install, calibrate, maintain, and operate a temperature measurement device for each afterburner.
[Rule 62-296.700(4)(a)6., FAC, and Rule 2.1101, JEPB]

## Emissions Unit No. 506 – Batch Roasters

Emissions Unit Description - (4) batch coffee bean roasters.

Control Device - (4) - cyclone in series with Enetex Catalytic Afterburners.

**Essential Potential to Emit (PTE) Parameters**

1. The maximum process rate for each roaster shall not exceed 5,500 pounds of coffee beans per hour.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate for each roaster is 1,984 cubic feet per minute.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

**Emission Limitations and Standards**

3. The hours of operation for this emissions unit shall not exceed 8400 hours per year.
[Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

4. PM emissions for each roaster shall not exceed 0.021 grain per dry standard cubic foot, 0.36 pound per hour, and 1.50 tons per year.
[Applicant's Request, Rule 62-296.712(2), FAC, and Rule 2.1101, JEPB]

5. VE for each roaster shall not exceed to 5 percent opacity.
[Rule 62-296.712(2), FAC, and Rule 2.1101, JEPB]

**Test Methods and Procedures**

6. Testing for demonstration of compliance shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
[Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. PM and VE shall be tested annually (alternating units) from the date of May 1, 2012.
[Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

**Monitoring of Operations**

9. Each afterburner shall maintain a minimum operating temperature of 770 $^{o}$F.
[Rule 62-296.700(4)(a)6., FAC, and Rule 2.1101, JEPB]

10. The owner or operator shall install, calibrate, maintain, and operate a temperature measurement device for each afterburner.
[Rule 62-296.700(4)(a)6., FAC, and Rule 2.1101, JEPB]

## Emissions Unit No. 509 – Hot Chaff System

Emissions Unit Description - Hot chaff handling system smoke control.

Control Device - Afterburner

**Essential Potential to Emit (PTE) Parameters**

1. The maximum heat input rate for the afterburner shall not exceed 9 x $10^6$ Btu per hour of natural gas.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate for the afterburner is 5,891 cubic feet per minute.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

**Emission Limitations and Standards**

4. PM emissions for the afterburner shall not exceed 0.014 grain per dry standard cubic foot, 0.68 pound per hour, and 3.00 tons per year.
[Applicant's Request, Rule 62-296.712(2), FAC, and Rule 2.1101, JEPB]

5. VE for the afterburner shall not exceed 5 percent opacity.
[Rule 62-296.712(2), FAC, and Rule 2.1101, JEPB]

**Test Methods and Procedures**

6. Testing for demonstration of compliance shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
[Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. VE shall be tested annually from the date of May 1, 2012.
[Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

9. PM shall be tested three (3) years from the date of May 1, 2012.
[Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

**Monitoring of Operations**

10. The afterburner shall maintain a minimum operating temperature of 800 $^{o}$F.
[Rule 62-296.700(4)(a)6., FAC, and Rule 2.1101, JEPB]

11. The owner or operator shall install, calibrate, maintain, and operate a temperature measurement device for the afterburner.
[Rule 62-296.700(4)(a)6., FAC, and Rule 2.1101, JEPB]

## Emissions Unit No. 510 – Bunkers

Emissions Unit Description - (22) coffee bean storage bunkers.

Control Device - MAC Baghouse Model 120MCF112, Type III.

**Essential Potential to Emit (PTE) Parameters**

1. The maximum process rate shall not exceed 120,000 pounds per hour of green coffee beans.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate is 10,000 cubic feet per minute.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

**Emission Limitations and Standards**

4. PM emissions shall not exceed 0.008 grain per dry standard cubic foot, 0.68 pound per hour, and 3.00 tons per year.
[Applicant's Request, Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

5. VE shall not exceed 5 percent opacity.
[Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

**Test Methods and Procedures**

6. Testing for demonstration of compliance shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
[Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. VE shall be tested annually from the date of May 1, 2012.
[Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

9. PM shall be tested three (3) years from the date of May 1, 2012.
[Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 511 – GFM Bunkers

Emissions Unit Description - (3) coffee bean storage bunkers.

Control Device - Flex Kleen Model 84CTBC-24 Baghouse

**Essential Potential to Emit (PTE) Parameters**

1. The maximum process rate shall not exceed 15,000 pounds per hour of coffee beans.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate is 319 cubic feet per minute.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

**Emission Limitations and Standards**

4. Particulate matter (PM) emissions shall not exceed one (1) ton per year.
[Rule 62-296.700(2)(c), FAC, and Rule 2.1101, JEPB]

5. Visible emissions (VE) shall not exceed five (5) percent opacity.
[Rule 62-297.620(4), FAC, and Rule 2.1201, JEPB]

**Test Methods and Procedures**

6. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA Reference Method (RM) 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
[Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. VE shall be tested annually from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 512 – Thermalo Green Bean Conveying System

Emissions Unit Description - Pneumatically conveyed green coffee beans to the Thermalo roasters.

Control Device - (2) cyclones in series with a Dracco Baghouse

### Essential Potential to Emit (PTE) Parameters

1. The maximum process rate shall be limited to 6,200 pounds per hour of coffee beans.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate is 931 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

### Emission Limitations and Standards

4. PM emissions shall be limited to 0.03 grain per dry standard cubic foot, 0.24 pound per hour, and 1.05 tons per year.
   [Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

5. VE shall be limited to 5 percent opacity.
   [Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

### Test Methods and Procedures

6. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
   [Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
   [Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. VE shall be tested annually from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 513 – Thermalo Cooling Cars

Emissions Unit Description - Roasted beans from the two (2) Thermalo roasters are cooled in two (2) cooling cars prior to destoning.

Control Device - (2) cyclones

### Essential Potential to Emit (PTE) Parameters

1. The maximum process rate for each cooling car shall not exceed to 3,100 pounds per hour of coffee beans.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate for each cooling car is 4,648 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

### Emission Limitations and Standards

4. PM emissions for each cooling car shall not exceed 0.017 grain per dry standard cubic foot, 0.68 pound per hour, and 3.00 tons per year.
   [Applicant's Request, Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

5. VE for each cooling car shall not exceed 5 percent opacity.
   [Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

### Test Methods and Procedures

6. Testing for demonstration of compliance shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
   [Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
   [Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. PM and VE shall be tested annually from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 514 – Thermalo Destoners

Emissions Unit Description - Two (2) destoners are used to remove stones and other waste from the roasted beans that were not removed in the initial cleaning process.

Control Device - (2) cyclones in series with a MAC Model 96AVR80 Style III Baghouse

### Essential Potential to Emit (PTE) Parameters

1. The maximum process rate for each destoner shall not exceed 3,100 pounds per hour of coffee beans.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate is 7,000 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

**Emission Limitations and Standards**

4. PM emissions shall not exceed to 0.011 grain per dry standard cubic foot, 0.68 pound per hour, and 3.00 tons per year.
   [Applicant's Request, Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

5. VE shall not exceed 5 percent opacity.
   [Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

**Test Methods and Procedures**

6. Testing for demonstration of compliance shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
   [Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
   [Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. PM and VE shall be tested annually from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 515 – Thermalo Scale

Emissions Unit Description - Roasted beans are pneumatically conveyed to the Thermalo scale for product weighing.

Control Device - Cyclone

**Essential Potential to Emit (PTE) Parameters**

1. The maximum process rate shall be limited to 6,200 pounds per hour of coffee beans.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate is 1,250 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

**Emission Limitations and Standards**

4. PM emissions shall be limited to 0.03 grain per dry standard cubic foot, 0.32 pound per hour, and 1.40 tons per year.
   [Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

5. VE shall be limited to 5 percent opacity.
   [Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

**Test Methods and Procedures**

6. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
   [Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
   [Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. VE shall be tested annually from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 516 – Probat Green Bean Feed System

Emissions Unit Description - Pneumatically conveyed green coffee beans to the Probat roasters.

Control Device - (10) cyclones in series with a Flex Kleen Baghouse

**Essential Potential to Emit (PTE) Parameters**

1. The maximum process rate shall be limited to 31,000 pounds per hour of coffee beans.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate is 1,250 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

**Emission Limitations and Standards**

4. PM emissions shall be limited to 0.03 grain per dry standard cubic foot, 0.32 pound per hour, and 1.40 tons per year.
   [Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

5. VE shall be limited to 5 percent opacity.
   [Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

**Test Methods and Procedures**

6. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
   [Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
   [Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. VE shall be tested annually from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 517 – Probat Destoner Cooling Cars

Emissions Unit Description - Roasted beans from the ten (10) Probat roasters are cooled in ten (10) cooling cars prior to destoning. Ten (10) destoners are used to remove stones and other waste from the roasted beans that were not removed in the initial cleaning process.

Control Device - (10) cyclones

### Essential Potential to Emit (PTE) Parameters

1. The maximum process rate for each destoner/cooling car shall not exceed 3,100 pounds per hour of coffee beans.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate for each destoner is 7,648 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

### Emission Limitations and Standards

4. PM emissions for each destoner shall not exceed 0.01 grain per dry standard cubic foot, 0.68 pound per hour, and 3.00 tons per year.
   [Applicant's Request, Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

5. VE for each destoner shall not exceed 5 percent opacity.
   [Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

### Test Methods and Procedures

6. Testing for demonstration of compliance shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
   [Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
   [Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. PM and VE shall be tested annually on two (2) destoners (alternating units) from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 518 – Probat Cold Chaff System

Emissions Unit Description - Pneumatically conveys cold chaff from the Probat roasters to the grounds pit.

Control Device - Cyclone

### Essential Potential to Emit (PTE) Parameters

1. The nominal volumetric flow rate is 3,633 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

### Emission Limitations and Standards

3. PM emissions shall not exceed 0.018 grain per dry standard cubic foot, 0.57 pound per hour, and 2.50 tons per year.
   [Applicant's Request, Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

4. VE shall not exceed 5 percent opacity.
   [Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

### Test Methods and Procedures

5. Testing for demonstration of compliance shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
   [Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

6. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
   [Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

7. VE shall be tested annually from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

8. PM shall be tested three (3) years from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 519 – Probat Scales

Emissions Unit Description - Roasted beans are pneumatically conveyed to three (3) Probat scales for product weighing.

Control Device - (3) cyclones

### Essential Potential to Emit (PTE) Parameters

1. The maximum process rate shall not exceed 31,000 pounds per hour of coffee beans.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate for each scale is 4,710 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

**Emission Limitations and Standards**

4. PM emissions for each scale shall not exceed 0.011 grain per dry standard cubic foot, 0.46 pound per hour, and 2.00 tons per year.
   [Applicant's Request, Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

5. VE for each scale shall not exceed 5 percent opacity.
   [Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

**Test Methods and Procedures**

6. Testing for demonstration of compliance shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
   [Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
   [Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. PM and VE shall be tested annually (alternating units) from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 524 – Batch Green Bean Storage Silos

Emissions Unit Description - Pneumatically conveyed beans to the blend before roasting silos (BBR-3).

Control Device - Kice Baghouse Model HR24-9H

**Essential Potential to Emit (PTE) Parameters**

1. The maximum process rate shall be limited to 22,000 pounds per hour of coffee beans.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate is 2,386 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

**Emission Limitations and Standards**

3. The hours of operation for this emissions unit shall not exceed 8400 hours per year.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

4. PM emissions shall be limited to less than one (1) ton per year.
   [Rule 62-296.700(2)(c), FAC, and Rule 2.1101, JEPB]

4. VE shall be limited to five (5) percent opacity.
   [Rule 62-297.620(4), FAC, and Rule 2.1201, JEPB]

**Test Methods and Procedures**

6. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
[Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. VE shall be tested annually from the date of May 1, 2012.
[Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 525 – Batch Roasters Green Bean Feed System

Emissions Unit Description - Pneumatically conveys green coffee beans to the four (4) Batch roasters.

Control Device - Flex-Kleen Model 84-WRWS-48 Baghouse

**Essential Potential to Emit (PTE) Parameters**

1. The maximum process rate shall be limited to 22,000 pounds per hour of coffee beans.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate is 1,432 cubic feet per minute.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

**Emission Limitations and Standards**

3. The hours of operation for this emissions unit shall not exceed 8400 hours per year.
[Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

4. PM emissions shall be limited to less than one (1) ton per year.
[Rule 62-296.700(2)(c), FAC, and Rule 2.1101, JEPB]

5. VE shall be limited to five (5) percent opacity.
[Rule 62-297.620(4), FAC, and Rule 2.1201, JEPB]

**Test Methods and Procedures**

6. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
[Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. VE shall be tested annually from the date of May 1, 2012.
[Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 526 – Batch Cooling Cars

Emissions Unit Description - Roasted beans from the four (4) Batch roasters are cooled in four (4) cooling cars prior to destoning.

Control Device - (4) Ducon Cyclones Model 700/330

### Essential Potential to Emit (PTE) Parameters

1. The maximum process rate for each cooling car shall be limited to 5,500 pounds per hour of coffee beans. [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate for each cooling car is 5,151 cubic feet per minute. [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

### Emission Limitations and Standards

3. The hours of operation for this emissions unit shall not exceed 8400 hours per year. [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

4. PM emissions for each cooling car shall be limited to less than one (1) ton per year. [Rule 62-296.700(2)(c), FAC, and Rule 2.1101, JEPB]

5. VE for each cooling car shall be limited to five (5) percent opacity. [Rule 62-297.620(4), FAC, and Rule 2.1201, JEPB]

### Test Methods and Procedures

6. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter. [Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity. [Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. VE shall be tested annually (alternating units) from the date of May 1, 2012. [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 527 – Batch Destoners

Emissions Unit Description - Four (4) destoners are used to remove stones and other waste from the roasted beans that were not removed in the initial cleaning process.

Control Device - (4) Flex-Kleen Model 100-WRWS-64 Baghouses

### Essential Potential to Emit (PTE) Parameters

1. The maximum process rate for each destoner shall be limited to 5,500 pounds per hour of coffee beans. [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate for each destoner is 6,344 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

**Emission Limitations and Standards**

3. The hours of operation for this emissions unit shall not exceed 8400 hours per year.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

4. PM emissions for each destoner shall be limited to less than one (1) ton per year.
   [Rule 62-296.700(2)(c), FAC, and Rule 2.1101, JEPB]

5. VE for each destoner shall be limited to five (5) percent opacity.
   [Rule 62-297.620(4), FAC, and Rule 2.1201, JEPB]

**Test Methods and Procedures**

6. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
   [Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
   [Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. VE shall be tested annually (alternating units) from the date of May 1, 2012.
   [Rule 62-297.620(4), FAC, and Rule 2.1201, JEPB]

## Emissions Unit No. 528 – BAR Systems Nos. 1, 2, and 3

Emissions Unit Description - Three (3) blend after roasting (BAR) pneumatic handling systems and silos.

Control Device - (2) Flex-Kleen Model 100-WSTS-81 Baghouses

**Essential Potential to Emit (PTE) Parameters**

1. The nominal volumetric flow rate for each baghouse is 5,481 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

**Emission Limitations and Standards**

2. The hours of operation for this emissions unit shall not exceed 8400 hours per year.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

3. PM emissions for each baghouse shall be limited to less than one (1) ton per year.
   [Rule 62-296.700(2)(c), FAC, and Rule 2.1101, JEPB]

4. VE for each baghouse shall be limited to five (5) percent opacity.
   [Rule 62-297.620(4), FAC, and Rule 2.1201, JEPB]

**Test Methods and Procedures**

5. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
[Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

6. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

7. VE shall be tested annually (alternating units) from the date of May 1, 2012.
[Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

**Emissions Unit No. 0529 – Whole Roasted Bean Storage and Coffee Bean Reclaim System**

| | |
|---|---|
| Emissions Unit Description: | This emission unit handles both the Whole Roasted Bean Storage and Coffee Bean Reclaim System batch processes. |
| Control Device: | Flex-Kleen, Model WRBS-48 Baghouse |

**Essential Potential to Emit (PTE) Parameters**

1. The nominal volumetric flow rate for the Flex-Kleen, Model WRBS-48 Baghouse is 931 cfm.
[Rule 62-210.200(PTE), FAC, and Rule 2.301, JEPB]

2. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
[Rule 62-210.200(PTE), FAC, and Rule 2.301, JEPB]

3. The maximum process rate of the Whole Roasted Bean Storage Process shall not exceed 36,990 pounds per hour of green coffee beans.
[Rule 62-210.200 (PTE), FAC, and Rule 2.301, JEPB]

**Emission Limitations and Standards**

4. PM emissions shall not exceed 0.03 grains per dry standard cubic foot (0.24 pound per hour and 1.05 tons per year).
[Rule 62-296.711(2), FAC, and Rule 2.1201, JEPB]

5. VE emissions for the Whole Roasted Bean Storage and the Coffee Bean Reclaim System shall not exceed 5% opacity.
[Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

**Test Methods and Procedures**

6. Testing for demonstration of compliance shall be performed upon request in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
[Rule 62-296.711(3), FAC, and Rule 2.1101, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
[Rule 62-296.711(3), FAC, and Rule 2.1101, JEPB]

8. VE shall be tested annually from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

9. VE testing shall be conducted for a minimum period of 30 minutes.
   [Rule 62-297.310(4)(a), FAC and Rule 2.1201, JEPB]

## Emissions Unit No. 530 – Gevalia Packaging Machines

Emissions Unit Description - Ground coffee packaging operation.

Control Device - Flex-Kleen Model 84-WRBC-80 Baghouse

### Essential Potential to Emit (PTE) Parameters

1. The maximum process rate shall not exceed 3,400 pounds per hour of Gevalia beans .
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate is 500 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

### Emission Limitations and Standards

4. PM emissions shall not exceed 0.011 grain per dry standard cubic foot, 0.46 pound per hour, and 2.00 tons per year.
   [Applicant's Request, Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

5. VE shall not exceed 5 percent opacity.
   [Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

### Test Methods and Procedures

6. Testing for demonstration of compliance shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
   [Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
   [Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. VE shall be tested annually from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

9. PM shall be tested five (5) years from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 532 – GFIC Sugar Unloading

Emissions Unit Description - International coffee ingredients sugar unloading station.

Control Device - Shick Tube-veyor Bin Vent, Model 58AJ25 B

### Essential Potential to Emit (PTE) Parameters

1. The maximum process rate shall be limited to 50,000 pounds per hour.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate is 450 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

### Emission Limitations and Standards

4. PM emissions shall be limited to less than one (1) ton per year.
   [Rule 62-296.700(2)(c), FAC, and Rule 2.1101, JEPB]

5. VE shall be limited to five (5) percent opacity.
   [Rule 62-297.620(4), FAC, and Rule 2.1201, JEPB]

### Test Methods and Procedures

6. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
   [Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
   [Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. VE shall be tested annually from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 533 – GFIC Minors Dump Station Receiving

Emissions Unit Description - International coffee minor ingredients handling process.

Control Device - IAC Bin Vent Model FRIP-AZ-4

### Essential Potential to Emit (PTE) Parameters

1. The maximum process rate shall be limited to 20,000 pounds per hour.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate is 400 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

**Emission Limitations and Standards**

4. PM emissions shall be limited to less than one (1) ton per year.
   [Rule 62-296.700(2)(c), FAC, and Rule 2.1101, JEPB]

5. VE shall be limited to five (5) percent opacity.
   [Rule 62-297.620(4), FAC, and Rule 2.1201, JEPB]

**Test Methods and Procedures**

6. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
   [Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
   [Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. VE shall be tested annually from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 534 – GFIC Majors Dump Station Receiving

Emissions Unit Description - International coffee major ingredients handling process.

Control Device - Flex Kleen Baghouse

**Essential Potential to Emit (PTE) Parameters**

1. The maximum process rate shall not exceed 20,000 pounds per hour.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate is 7,000 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

**Emission Limitations and Standards**

4. PM emissions shall not exceed 0.011 grain per dry standard cubic foot, 0.68 pound per hour, and 3.00 tons per year.
   [Applicant's Request, Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

5. VE shall not exceed 5 percent opacity.
   [Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

**Test Methods and Procedures**

6. Testing for demonstration of compliance shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
[Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. VE shall be tested annually from the date of May 1, 2012.
[Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

9. PM shall be tested three (3) years from the date of May 1, 2012.
[Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 535 – GFIC Finished Mix

Emissions Unit Description - International coffee finished mix handling process.

Control Device - AZO Bin Vent Model F500-65

**Essential Potential to Emit (PTE) Parameters**

1. The maximum process rate shall be limited to 20,000 pounds per hour.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate is 500 cubic feet per minute.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

**Emission Limitations and Standards**

4. PM emissions shall be limited to less than one (1) ton per year.
[Rule 62-296.700(2)(c), FAC, and Rule 2.1101, JEPB]

5. VE shall be limited to five (5) percent opacity.
[Rule 62-297.620(4), FAC, and Rule 2.1201, JEPB]

**Test Methods and Procedures**

6. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
[Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. VE shall be tested annually from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 536 – GFM Surge Bins

Emissions Unit Description - Green bean coffee processing operation utilizing surge bins, weight bin, and scale.

Control Device - Flex-Kleen Model 45-PVTL-16 Baghouse

### Essential Potential to Emit (PTE) Parameters

1. The maximum process rate shall not exceed 15,000 pounds per hour of green coffee beans.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate is 964 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

### Emission Limitations and Standards

4. PM emissions shall not exceed 0.03 grain per dry standard cubic foot, 0.25 pound per hour, and 1.10 tons per year.
   [Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

5. VE shall not exceed 5 percent opacity.
   [Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

### Test Methods and Procedures

6. Testing for demonstration of compliance , upon request, shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
   [Rule 62-296.711(3), FAC, and Rule 2.1101, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
   [Rule 62-296.711(3), FAC, and Rule 2.1101, JEPB]

8. VE shall be tested annually from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 537 – GFM Bean Separator

Emissions Unit Description - Green bean coffee processing operation feed system.

Control Device - Hoffman Pulse Air Dust Collector Model GS-5578

### Essential Potential to Emit (PTE) Parameters

1. The maximum process rate shall not exceed 15,000 pounds per hour of green coffee beans.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate is 3,674 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

**Emission Limitations and Standards**

4. PM emissions shall not exceed 0.014 grain per dry standard cubic foot, 0.46 pound per hour, and 2.00 tons per year.
   [Applicant's Request, Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

5. VE shall not exceed 5 percent opacity.
   [Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

**Test Methods and Procedures**

6. Testing for demonstration of compliance shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
   [Rule 62-296.711(3), FAC, and Rule 2.1101, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
   [Rule 62-296.711(3), FAC, and Rule 2.1101, JEPB]

8. VE shall be tested annually from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

9. PM shall be tested three (3) years from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 538 – GFM Process

Emissions Unit Description - Green bean coffee flavor enhancing process operation. This operation includes a centrifugal washer with wet scrubber, surge bins, pressure vessels, and condenser. The entire operation exhausts to the atmosphere through a single vent stack.

**Essential Potential to Emit (PTE) Parameters**

1. The maximum process rate shall not exceed 15,000 pounds per hour of green coffee beans.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate is 8,000 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

**Emission Limitations and Standards**

4. PM emissions shall not exceed 0.02 grain per dry standard cubic foot, 1.37 pounds per hour, and 6.00 tons per year.
   [Applicant's Request, Rule 62-296.712(2), FAC, and Rule 2.1101, JEPB]

5. VE shall not exceed 5 percent opacity.
   [Rule 62-296.712(2), FAC, and Rule 2.1101, JEPB]

**Test Methods and Procedures**

6. Testing for demonstration of compliance shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
   [Rule 62-296.712(3), FAC, and Rule 2.1101, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
   [Rule 62-296.712(3), FAC, and Rule 2.1101, JEPB]

8. VE shall be tested annually from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

9. PM shall be tested three (3) years from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 539 – Green Coffee Silos

Emissions Unit Description - (2) green coffee bean storage silos.

Control Device - (2) cyclones

**Essential Potential to Emit (PTE) Parameters**

1. The maximum process rate shall not exceed 42,000 pounds per hour of green coffee beans.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate for each silo is 5,000 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

**Emission Limitations and Standards**

4. PM emissions for each silo shall not exceed 0.016 grain per dry standard cubic foot, 0.68 pound per hour, and 3.00 tons per year.
   [Applicant's Request, Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

5. VE for each silo shall not exceed 5 percent opacity.
   [Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

**Test Methods and Procedures**

6. Testing for demonstration of compliance shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
   [Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. VE shall be tested on one silo annually from the date of May 1, 2012.
[Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

9. PM shall be tested on one silo three (3) years from the date of May 1, 2012.
[Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 540 – Green Coffee Silo Airveying

Emissions Unit Description - Pneumatically conveyed coffee beans to the Green Coffee Silos.

Control Device - (4) cyclones

### Essential Potential to Emit (PTE) Parameters

1. The maximum process rate shall not exceed 36,990 pounds per hour of green coffee beans.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate for each cyclone is 2,131 cubic feet per minute.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

### Emission Limitations and Standards

4. PM emissions for each cyclone shall not exceed 0.025 grain per dry standard cubic foot, 0.46 pound per hour, and 2.00 tons per year.
[Applicant's Request, Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

5. VE for each cyclone shall not exceed 5 percent opacity.
[Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

### Test Methods and Procedures

6. Testing for demonstration of compliance shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
[Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

8. VE shall be tested on one cyclone annually from the date of May 1, 2012.
[Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

9. PM shall be tested on one cyclone three (3) years from the date of May 1, 2012.
[Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 543 – Rework Station

Emissions Unit Description - The collection of partially roasted and ground coffee for reintroduction into the coffee processing systems.

Control Device - Kice Model HRB12-8 Baghouse

### Essential Potential to Emit (PTE) Parameters

1. The nominal volumetric flow rate is 1,892 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

### Emission Limitations and Standards

3. PM emissions shall be limited to 0.03 grain per dry standard cubic foot, 0.49 pound per hour, and 2.15 tons per year.
   [Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

4. VE shall be limited to 5 percent opacity.
   [Rule 62-296.711(2), FAC, and Rule 2.1101, JEPB]

### Test Methods and Procedures

5. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
   [Rule 62-297.310(4), FAC, and Rule 2.1201, JEPB]

6. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
   [Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

7. VE shall be tested annually from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 550 – GFM Drying Zone 1

Emissions Unit Description - Green bean coffee flavor enhancing process operation dryer.

Control Device - Fisher-Klosterman Cyclone, Model XQ-465-60S

### Essential Potential to Emit (PTE) Parameters

1. The maximum process rate shall not exceed 15,000 pounds per hour of green coffee beans.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The maximum heat input rate shall not exceed 16.80 x $10^6$ Btu per hour or 16,000 cubic feet per hour of natural gas.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. The nominal volumetric flow rate is 52,625 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

4. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

**Emission Limitations and Standards**

5. PM emissions shall not exceed 0.01 grain per dry standard cubic foot, 4.47 pounds per hour, and 19.56 tons per year.
   [Applicant's Request, Rule 62-296.712(2), FAC, and Rule 2.1101, JEPB]

6. VE shall not exceed 5 percent opacity.
   [Rule 62-296.712(2), FAC, and Rule 2.1101, JEPB]

**Test Methods and Procedures**

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
   [Rule 62-296.712(3), FAC, and Rule 2.1101, JEPB]

8. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
   [Rule 62-296.712(3), FAC, and Rule 2.1101, JEPB]

9. VE shall be tested annually from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

10. PM shall be tested three (3) years from the date of May 1, 2012.
    [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 551 – GFM Drying Zone 2

Emissions Unit Description - Green bean coffee flavor enhancing process operation dryer.

Control Device - Fisher-Klosterman Cyclone, Model XQ-465-49S

**Essential Potential to Emit (PTE) Parameters**

1. The maximum process rate shall not exceed 15,000 pounds per hour of green coffee beans.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The maximum heat input rate shall not exceed $5.25 \times 10^6$ Btu per hour or 5,000 cubic feet per hour of natural gas.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. The nominal volumetric flow rate is 10,500 cubic feet per minute.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

4. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

**Emission Limitations and Standards**

5. PM emissions shall not exceed 0.01 grain per dry standard cubic foot, 0.89 pound per hour, and 3.90 tons per year.
[Applicant's Request, Rule 62-296.712(2), FAC, and Rule 2.1101, JEPB]

6. VE shall not exceed 5 percent opacity.
[Rule 62-296.712(2), FAC, and Rule 2.1101, JEPB]

**Test Methods and Procedures**

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
[Rule 62-296.712(3), FAC, and Rule 2.1101, JEPB]

8. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
[Rule 62-296.712(3), FAC, and Rule 2.1101, JEPB]

9. VE shall be tested annually from the date of May 1, 2012.
[Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

10. PM shall be tested three (3) years from the date of May 1, 2012.
[Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

## Emissions Unit No. 552 – GFM Drying Zone 3

Emissions Unit Description - Green bean coffee flavor enhancing process operation dryer.

Control Device - Fisher-Klosterman Cyclone, Model XQ-465-52S

**Essential Potential to Emit (PTE) Parameters**

1. The maximum process rate shall not exceed 15,000 pounds per hour of green coffee beans.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The maximum heat input rate shall not exceed 7.35 x $10^6$ Btu per hour or 7,000 cubic feet per hour of natural gas.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. The nominal volumetric flow rate is 39,475 cubic feet per minute.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

4. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

**Emission Limitations and Standards**

5. PM emissions shall not exceed 0.01 grain per dry standard cubic foot, 3.35 pounds per hour, and 14.67 tons per year.
[Applicant's Request, Rule 62-296.712(2), FAC, and Rule 2.1101, JEPB]

6. VE shall not exceed 5 percent opacity.
   [Rule 62-296.712(2), FAC, and Rule 2.1101, JEPB]

**Test Methods and Procedures**

7. Testing for demonstration of compliance shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
   [Rule 62-296.712(3), FAC, and Rule 2.1101, JEPB]

8. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
   [Rule 62-296.712(3), FAC, and Rule 2.1101, JEPB]

9. VE shall be tested annually from the date of May 1, 2012.
   [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

10. PM shall be tested three (3) years from the date of May 1, 2012.
    [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

**Emissions Unit No. 555 – Fire Pump Diesel Engine**

Emissions Unit Description – One (1) fire pump diesel engine (John Deere 6.8L Power Tech Plus)

| Description of Engine | Date Built | Displacement/ Horsepower | Rule Applicability |
|---|---|---|---|
| 112 kW John Deere Fire Pump Engine | 01/31/2008 | 1.13 L/cylinder & 149 BHP | 40 CFR Part 60, Subpart IIII |

{**Permitting Note:** This permit section addresses new, emergency stationary compression ignition (CI) reciprocating internal combustion engines (RICE) manufactured after July 1, 2006 with an engine displacement of less than 30 liters per cylinder located at an area source of HAP emissions.}

1. This engine is subject to 40 CFR 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines and 40 CFR 60, Subpart A, General Provisions.
   [40 CFR 63.6590(a)(2)(iii) and (c)(1), Rule 62-204.800(8), FAC and Rule 2.201, JEPB]

**Essential Potential to Emit (PTE) Parameters**

2. This emissions unit shall use diesel fuel that meets the following per-gallon standards required in 40 CFR 80.510(b) for non-road diesel:

   a. The sulfur content for nonroad diesel fuel shall not exceed 15 ppm.
   b. The nonroad diesel cetane index shall not be less than 40 or the aromatic content shall not exceed 35 volume percent.

   [40 CFR 60.4207(b), Rule 62-204.800(8), FAC and Rule 2.201, JEPB]

3. The owner or operator shall operate and maintain the emergency stationary RICE according to the following:

   (a) There is no time limit on the use of emergency stationary RICE in emergency situations.

(b) The emergency stationary RICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or Local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year.
(c) The emergency stationary RICE may be operated up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance checks and readiness testing.
(d) The 50 hours per year for non-emergency situations may not be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity.
[40 CFR 60.4211(f), Rule 62-204.800(8), FAC and Rule 2.201, JEPB]

**Emission Limitations and Operating Requirements**

4. The engine in this emissions unit shall not exceed the following standards of non-methane (NM) hydrocarbons + nitrogen oxides ($NO_X$), hydrocarbons, NOx, carbon monoxide (CO), and particulate matter (PM). The owner or operator shall comply with these emission standards over the entire life of the engine.

| Engine | NM Hydrocarbons + $NO_x$ | CO | PM |
|---|---|---|---|
| 112 kW John Deere fire pump engine | 10.5 g/kW-hr | 5.0 g/kW-hr | 0.80 g/kW-hr |

[40 CFR 60.4205(c), Rule 62-204.800(8), FAC and Rule 2.201, JEPB]

**Operation and Maintenance**

5. The owner or operator shall operate the stationary compression ignition RICE and control devices according to the manufacturer's emission-related written instructions.
[40 CFR 60.4211(a)(1), Rule 62-204.800(8), FAC and Rule 2.201, JEPB]

6. The owner or operator shall only change those emission-related settings that are permitted by the manufacturer.
[40CFR 60.4211(a)(2), Rule 62-204.800(8), FAC and Rule 2.201, JEPB]

**Monitoring Requirements**

7. The owner or operator of an emergency stationary compression ignition RICE that does not meet the standards applicable to non-emergency engines shall install a non-resettable hour meter prior to startup of the engine.
[40 CFR 60.4209(a), Rule 62-204.800(8), FAC and Rule 2.201, JEPB]

**Compliance Requirements**

8. The owner or operator shall demonstrate compliance according to one of the methods specified below:

a. Purchase an engine certified according to 40 CFR Part 89 or Part 94, as applicable, for the same model year and maximum engine power.
b. Keep records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in 40 CFR 60.4212, as applicable.
c. Keep records of engine manufacturer data indicating compliance with the standards.

d. Keep records of control device vendor data indicating compliance with the standards.
e. Conduct an initial performance test to demonstrate compliance with emission standards according to the requirements specified in 40 CFR 40.4212, as applicable.

[40 CFR 60.4211(b), Rule 62-204.800(8), FAC and Rule 2.201, JEPB]

9. If the owner or operator does not install, configure, operate and maintain the emergency stationary compression ignition RICE and control device according to the manufacturer's emission-related written instructions, or changes emission-related settings in a way that is not permitted by the manufacturer, the owner or operator shall demonstrate compliance as follows:

   a. Keep a maintenance plan and records of conducted maintenance.
   b. Maintain and operate the engine in a manner consistent with good air pollution control practices for minimizing emissions.
   c. Conduct an initial performance test to demonstrate compliance with the applicable emission standards:
      (i) Within 1 year of startup or
      (ii) Within 1 year after an engine and control device is no longer installed, configured, operated and maintained in accordance with the manufacturer's emission-related written instructions or
      (iii) Within 1 year after the emission-related settings are changed in a way that is not permitted by the manufacturer.

   [40 CFR 60.4211(g)(2), Rule 62-204.800(8), FAC and Rule 2.201, JEPB]

## Recordkeeping and Reporting Requirements

10. Records shall be maintained for the hours of operation of the engines for emergency and non-emergency engine usage, including maintenance checks and readiness testing. This shall include all hours of operation recorded through the non-resettable hour meter. The owner or operator shall record the time of operation of the engine and the reason the engine was in operation. These records shall be kept and maintained for a minimum period of five (5) years. Records shall be provided to the Permitting Authority upon request.
    [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

11. If the stationary RICE is equipped with a diesel particulate filter, the owner or operator shall keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached. These records shall be kept and maintained for a minimum period of five (5) years. Records shall be provided to the Permitting Authority upon request.
    [40 CFR 60.4214(c), Rule 62-4.070(3), FAC, Rule 62-204.800(8), FAC, Rule 2.1401, JEPB and Rule 2.201, JEPB]

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