Anheuser-Busch, Inc.
Jacksonville Brewery
Facility ID No.: 0310006
Duval County

Title V Air Operation Permit Renewal

Revised DRAFT Permit Project No.: 0310006-012-AV

PERMITTING & COMPLIANCE AUTHORITY:
ENVIRONMENTAL AND COMPLIANCE DEPARTMENT
ENVIRONMENTAL QUALITY DIVISION
117 WEST DUVAL STREET, SUITE 225
JACKSONVILLE, FL 32202
TELEPHONE: (904) 630-4900
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Title V Air Operation Permit Renewal
Revised DRAFT Permit No.: 0310006-012-AV

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Operation and Maintenance Plan

** Converted to Insignificant Emission Units

Permittee:
Anheuser-Busch, Inc.
111 Busch Drive
Jacksonville, FL 32218-5595

Revised DRAFT Permit No.: 0310006-012-AV
Facility ID No.: 0310006
SIC Nos.: 20
Project: Title V Air Operation Permit Renewal

The purpose of this permit is to renew the Title V Air Operation Permit No. 0310006-009-AV, incorporate the terms of construction permit, No. 0310006-011-AC, issued on October 16, 2007, clarify language on various emission units, update testing frequency requirements, and convert Emission Unit (EU) Nos. 009, 010, 018, 025, 034, and 036 to insignificant EUs. This existing facility is located at 111 Busch Drive, Jacksonville, Duval County, FL; UTM Coordinates: Zone 17, 438.00 km East and 3366.70 km North; Latitude: 30° 26' 08" North and Longitude: 81° 38' 32" 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 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
Appendix U-1, List of Unregulated Emissions Units and/or Activities
Best Available Control Technology Determinations for (4) Boilers, Combustion Turbine, and Duct Burner & Heat Recovery Boiler
Operation and Maintenance Plan

Effective Date:
Renewal Application Due Date: October 15, 2012
Expiration Date: May 31, 2013

Environmental and Compliance Department
Environmental Quality Division

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

VAS/JW/rdr

S:/PermitV/ TVOP/D/0310006-012drevised-AV

Section I. Facility Information.

Subsection A. Facility Description.

This facility produces beer from barley malt, cereal grains, water, hops, and yeast. The brewery is divided into seven (7) major areas: grains handling, brewing, fermenting, finishing, beer packaging and shipping, utilities, and wastewater pretreatment.

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

Based on the Title V Air Operation Permit Renewal application received November 27, 2007, 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
001	Boiler No. 1
002	Boiler No. 2
003	Boiler No. 3
004	Boiler No. 4
009	** Grain Conveying System I
010	** Grain Conveying System II
011	Grain Building Dust Collection System I
012	Grain Building Dust Collection System II
013	Grain Unloading II
017	Grain Unloading I
018	** Grain Area Vacuum Cleaning System I
025	** Bulk Salt Unloading
027	Combustion Turbine
028	Duct Burner & Heat Recovery Boiler
031	Biogas Flare
032	Backup Biogas Flare
033	H_2S Scrubber
034	** K-5 Beer Filter
035	Filter Media Storage Silos
036	** Bulk Gypsum System
037	Non-regulated VOC emissions sources at the Jacksonville Brewery
**	Converted to Insignificant Emission Units

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

These documents are on file with the permitting authority:
Title V Air Operation Permit Revision issued August 1, 2006
Title V Air Construction Permit 03100006-011-AC issued October 16, 2007
Application for a Title V Air Operation Permit Renewal received November 27, 2007
Additional information received April 9, 2008

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) in accordance with Rule 62-296.320(4)(b)1., FAC, and Rule 2.1001, JEPB. EPA Method 9 is the method of compliance pursuant to Chapter 62-297, FAC, and Rule 2.1101, JEPB.

3. Prevention of Accidental Releases (Section 112(r) of CAA).
   a. As required by Section 112(r)(7)(B)(iii) of the CAA and 40 CFR 68, the owner or operator shall submit an updated Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center.
   b. As required under Section 252.941(1)(c), F.S., the owner or operator shall report to the appropriate representative of the Department of Community Affairs (DCA), as established by department rule, within one working day of discovery of an accidental release of a regulated substance from the stationary source, if the owner or operator is required to report the release to the United States Environmental Protection Agency under Section 112(r)(6) of the CAA.
   c. The owner or operator shall submit the required annual registration fee to the DCA on or before April 1, in accordance with Part IV, Chapter 252, F.S., and Rule 9G-21, F.A.C.

   Any required written reports, notifications, certifications, and data required to be sent to the DCA, should be sent to:

   Department of Community Affairs
   Division of Emergency Management
   2555 Shumard Oak Boulevard
   Tallahassee, FL 32399-2100
   Telephone: (850) 413-9921, Fax: (850) 488-1739

   Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to:

   RMP Reporting Center
   Post Office Box 3346
   Merrifield, VA 22116-3346
   Telephone: (703) 816-4434

Any required reports to be sent to the National Response Center, should be sent to:

National Response Center
EPA Office of Solid Waste and Emergency Response
USEPA (5305 W)
401 M Street, SW
Washington, D.C. 20460
Telephone: (800) 424-8802

Send the required annual registration fee using approved forms made payable to:

Cashier
Department of Community Affairs
State Emergency Response Commission
2555 Shumard Oak Boulevard
Tallahassee, FL 32399-2149

[Part IV, Chapter 252, FS, and Rule 9G-21, FAC]

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 Department.
[Rule 62-296.320(1)(a), FAC, and Rule 2.1001, 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 the following:
   a. Paving and maintenance of roads, parking areas and yards.
   b. Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
   c. Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.
   d. Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the facility to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.
   e. Landscaping or planting of vegetation.
   f. Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
   g. Confining abrasive blasting where possible.
   h. Enclosure or covering of conveyor systems.

   [Rule 62-296.320(4)(c)2., FAC, and Rule 2.1001, JEPB]

6. Certification by Responsible Official (RO). In addition to the professional engineering certification required for applications by Rule 62-4.050(3), FAC, any application form, report, compliance statement, compliance plan and compliance schedule submitted pursuant to Chapter 62-213, FAC, 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]

7. Insignificant Emissions Units and/or Activities. Appendix I-1, List of Insignificant Emissions Units and/or Activities, is a 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 2.1301, JEPB]

8. Unregulated Emissions Units and/or Activities. Appendix U-1, List of Unregulated Emissions Units and/or Activities, is a part of this permit.
[Rule 62-213.440(1), FAC, and Rule 2.501, JEPB.]

9. Permittee shall notify the Environmental Quality Division (Department) fifteen (15) days prior to Emissions Unit testing.
[Rule 62-297.310(7)(a)9., FAC, and Rule 2.1101, JEPB]

10. Control equipment shall be provided with a method of access that is safe and readily accessible.
[Rule 62-297.310(6), FAC, and Rule 2.1101, JEPB]

11. 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 until a new test is conducted. Once the Emissions Unit is so limited, then operation at higher capacities 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 2.1101, JEPB]

12. Copies of the test report(s) shall be submitted to the Department within forty-five (45) days of completion of testing.
[Rule 62-297.310(8)(b), FAC, and Rule 2.1101, JEPB]

13. 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]

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

Environmental and Compliance Department
Environmental Quality Division
117 West Duval Street, Suite 225
Jacksonville, FL 32202
Telephone: (904) 630-4900
Fax: (904) 630-3638

15. 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

16. Statement of Compliance. The annual statement of compliance pursuant to Rule 62-213.440(3)(a)2., FAC, shall be submitted to the Department 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]

17. 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]

18. 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 Department 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 2.1301, 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, FAC, and Rule 2.201, JEPB]

19. The permittee shall submit reports of any required monitoring at least every six (6) months. All instances of deviations from permit requirements must 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 2.1301, 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]

The following Facility-wide conditions are not federally enforceable

20. 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 2.1001, JEPB]

21. 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].

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

Section III. Emissions Unit(s) and Conditions.

Emissions Unit No. 001 – Boiler No. 1

Emissions Unit Description – The operation of a 97 x 10^6 Btu per hour B&W Boiler providing steam for the brewery fired with No. 2 fuel oil, natural gas, and biogas generated by the anaerobic pretreatment facility.

Essential Potential to Emit (PTE) Parameters

1. 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

2. The maximum heat input rate shall be limited as follows:
   a. 97 x 10^6 Btu per hour while firing natural gas.
   b. 92 x 10^6 Btu per hour and 225 x 10^6 Btu per hour total for Boilers Nos. 1, 2, 3, and 4 while firing No. 2 fuel oil or a combination of No. 2 fuel oil and biogas.
   c. 40 x 10^6 Btu per hour of biogas for Boilers 1, 2, 3, and 4 combined while firing in combination with natural gas or No. 2 fuel oil.

   [Rule 62-212.400, FAC, and Rule 2.401, JEPB]

3. The annual No. 2 fuel oil usage for Boilers Nos. 1, 2, 3, and 4 shall not exceed 11,312,000 gallons.
   [Rule 62-212.400, FAC, and Rule 2.401, JEPB]

4. The natural gas usage for Boiler No. 1 shall not exceed 95,500 cubic feet per hour and 836.58 x 10^6 cubic feet per year.
   [Rule 62-212.400, FAC, and Rule 2.401, JEPB]

5. The maximum biogas usage for Boilers Nos. 1, 2, 3, and 4 shall not exceed 57,389 cubic feet per hour.
   [Rule 62-212.400, FAC, and Rule 2.401, JEPB]

6. The maximum production and burning of biogas for the facility shall not exceed 400 x 10^6 cubic feet per year.
   [Rule 62-212.400, FAC, and Rule 2.401, JEPB]

7. Sulfur dioxide (SO_2) and particulate matter (PM) emissions shall be controlled in accordance with the Best Available Control Technology (BACT) Determination.
   [Rules 62-296.406(2) and (3), FAC, and Rule 2.1001, JEPB]

8. Nitrogen oxides (NO_x), carbon monoxide (CO), and volatile organic compounds (VOC) emissions shall be controlled in accordance with Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB.

9. The maximum allowable emissions shall be limited as follows:

Pollutant	lbs/hr	tons/yr	Total (Four Boilers) tons/yr	Other lbs/10^6 Btu
PM				0.1
(No. 2 Fuel Oil)	9.20	40.30	84.80	
(Natural Gas)	0.50	2.19	8.40	
(Biogas)	1.00	1.10	1.10	
SO_2				
(No. 2 Fuel Oil)	46.33	202.93	496.25	
(Natural Gas)	0.10	0.44	1.20	
(Biogas)	73.70	37.20	37.20	
NO_x				
(No. 2 Fuel Oil)	36.80	161.18	338.70	0.4
(Natural Gas)	24.30	106.43	424.90	0.25
(Biogas)	18.40	20.80	20.80	
CO				
(No. 2 Fuel Oil)	3.10	13.58	28.30	
(Natural Gas)	8.02	35.14	140.55	
(Biogas)	4.90	16.80	16.80	
VOC				
(No. 2 Fuel Oil)	0.20	0.88	3.50	
(Natural Gas)	0.30	1.31	5.20	
(Biogas)	1.00	1.10	1.10	

10. Visible emissions (VE) shall not exceed 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 2.1001, JEPB]

11. The maximum sulfur content of the No. 2 fuel oil shall not exceed 0.5% by weight.
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

Test Methods and Procedures

12. 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 2.1101, JEPB]

13. 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 2.1101, JEPB]

14. VE shall be tested for permit renewal (i.e., 270 days prior to permit expiration).
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

15. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 6 (as described in 40 CFR 60, Appendix A) for sulfur dioxide.
[Rule 62-297.310(4), FAC, and Rule 2.1101, JEPB]

16. Testing for demonstration of compliance shall be performed in accordance with EPA RM 7 or 7E (as described in 40 CFR 60, Appendix A) for nitrogen oxides.
[Rule 62-297.310(4), FAC, and Rule 2.1101, JEPB]

17. NO_x shall be tested four (4) years from the date of December 1, 2007. NO_x testing shall be conducted while burning No. 2 fuel oil.
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

18. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 10 (as described in 40 CFR 60, Appendix A) for carbon monoxide.
[Rule 62-297.310(4), FAC, and Rule 2.1101, JEPB]

19. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 25A (as described in 40 CFR 60, Appendix A) for volatile organic compounds.
[Rule 62-297.310(4), FAC, and Rule 2.1101, JEPB]

20. No. 2 fuel oil sulfur content shall be determined through certification by the fuel oil supplier (annually). Alternate testing may be through the use of ASTM Methods approved specifically for determining sulfur content in No. 2 fuel oil (distillate oil).
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

Recordkeeping and Reporting Requirements

21. Monthly records shall be maintained for the following:
    a. Cubic feet of natural gas fired
    b. Gallons of No. 2 fuel oil fired
    c. Sulfur content of No. 2 fuel oil
    d. Cubic feet of biogas fired

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

Emissions Unit No. 002 – Boiler No. 2

Emissions Unit Description – The operation of a 97 x 10^6 Btu per hour B&W Boiler providing steam for the brewery fired with No. 2 fuel oil, natural gas, and biogas generated by the anaerobic pretreatment facility.

Essential Potential to Emit (PTE) Parameters

1. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
[Rule 62-212.400, FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

2. The maximum heat input rate shall be limited as follows:
    a. 97 x 10^6 Btu per hour while firing natural gas.
    b. 92 x 10^6 Btu per hour and 225 x 10^6 Btu per hour total for Boilers Nos. 1, 2, 3, and 4 while firing No. 2 fuel oil or a combination of No. 2 fuel oil and biogas.
    c. 40 x 10^6 Btu per hour of biogas for Boilers 1, 2, 3, and 4 combined while firing in combination with natural gas or No. 2 fuel oil.

    [Rule 62-212.400, FAC, and Rule 2.401, JEPB]

3. The annual No. 2 fuel oil usage for Boilers Nos. 1, 2, 3, and 4 shall not exceed 11,312,000 gallons.
[Rule 62-212.400, FAC, and Rule 2.401, JEPB]

4. The natural gas usage for Boiler No. 2 shall not exceed 95,500 cubic feet per hour and 836.58 x 10^6 cubic feet per year.
   [Rule 62-212.400, FAC, and Rule 2.401, JEPB]

5. The maximum biogas usage for Boilers Nos. 1, 2, 3, and 4 shall not exceed 57,389 cubic feet per hour.
   [Rule 62-212.400, FAC, and Rule 2.401, JEPB]

6. The maximum production and burning of biogas for the facility shall not exceed 400 x 10^6 cubic feet per year.
   [Rule 62-212.400, FAC, and Rule 2.401, JEPB]

7. Sulfur dioxide (SO_2) and particulate matter (PM) emissions shall be controlled in accordance with the Best Available Control Technology (BACT) Determination.
   [Rules 62-296.406(2) and (3), FAC, and Rule 2.1001, JEPB]

8. Nitrogen oxides (NO_x), carbon monoxide (CO), and volatile organic compounds (VOC) emissions shall be controlled in accordance with Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB.

9. The maximum allowable emissions shall be limited as follows:

Pollutant	lbs/hr	tons/yr	Total (Four Boilers) tons/yr	Other lbs/10^6 Btu
PM				
(No. 2 Fuel Oil)	9.20	40.30	84.80	0.1
(Natural Gas)	0.50	2.19	8.40	
(Biogas)	1.00	1.10	1.10	
SO_2				
(No. 2 Fuel Oil)	46.33	202.93	496.25	
(Natural Gas)	0.10	0.44	1.20	
(Biogas)	73.70	37.20	37.20	
NO_x				
(No. 2 Fuel Oil)	36.80	161.18	338.70	0.4
(Natural Gas)	24.30	106.43	424.90	0.25
(Biogas)	18.40	20.80	20.80	
CO				
(No. 2 Fuel Oil)	3.10	13.58	28.30	
(Natural Gas)	8.02	35.14	140.55	
(Biogas)	4.90	16.80	16.80	
VOC				
(No. 2 Fuel Oil)	0.20	0.88	3.50	
(Natural Gas)	0.30	1.31	5.20	
(Biogas)	1.00	1.10	1.10	

10. VE shall not exceed 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 2.1001, JEPB]

11. The maximum sulfur content of the No. 2 fuel oil shall not exceed 0.5% by weight.
    [Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

Test Methods and Procedures

12. 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 2.1101, JEPB]

13. 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 2.1101, JEPB]

14. VE shall be tested for permit renewal (i.e., 270 days prior to permit expiration).
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

15. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 6 (as described in 40 CFR 60, Appendix A) for sulfur dioxide.
[Rule 62-297.310(4), FAC, and Rule 2.1101, JEPB]

16. Testing for demonstration of compliance shall be performed in accordance with EPA RM 7 or 7E (as described in 40 CFR 60, Appendix A) for nitrogen oxides.
[Rule 62-297.310(4), FAC, and Rule 2.1101, JEPB]

17. NO_x shall be tested four (4) years from the date of December 1, 2007. NO_x testing shall be conducted while burning natural gas.
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

18. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 10 (as described in 40 CFR 60, Appendix A) for carbon monoxide.
[Rule 62-297.310(4), FAC, and Rule 2.1101, JEPB]

19. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 25A (as described in 40 CFR 60, Appendix A) for volatile organic compounds.
[Rule 62-297.310(4), FAC, and Rule 2.1101, JEPB]

20. No. 2 fuel oil sulfur content shall be determined through certification by the fuel oil supplier (annually). Alternate testing may be through the use of ASTM Methods approved specifically for determining sulfur content in No. 2 fuel oil (distillate oil).
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

Recordkeeping and Reporting Requirements

21. Monthly records shall be maintained for the following:
    a. Cubic feet of natural gas fired
    b. Gallons of No. 2 fuel oil fired
    c. Sulfur content of No. 2 fuel oil
    d. Cubic feet of biogas fired

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

Emissions Unit No. 003 – Boiler No. 3

Emissions Unit Description – The operation of a 97 x 10^6 Btu per hour B&W Boiler providing steam for the brewery fired with No. 2 fuel oil, natural gas, and biogas generated by the anaerobic pretreatment facility.

Essential Potential to Emit (PTE) Parameters

1. 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

2. The maximum heat input rate shall be limited as follows:
   a. 97 x 10^6 Btu per hour while firing natural gas.
   b. 92 x 10^6 Btu per hour and 225 x 10^6 Btu per hour total for Boilers Nos. 1, 2, 3, and 4 while firing No. 2 fuel oil or a combination of No. 2 fuel oil and biogas.
   c. 40 x 10^6 Btu per hour of biogas for Boilers 1, 2, 3, and 4 combined while firing in combination with natural gas or No. 2 fuel oil.

   [Rule 62-212.400, FAC, and Rule 2.401, JEPB]

3. The annual No. 2 fuel oil usage for Boilers Nos. 1, 2, 3, and 4 shall not exceed 11,312,000 gallons.
   [Rule 62-212.400, FAC, and Rule 2.401, JEPB]

4. The natural gas usage for Boiler No. 3 shall not exceed 95,500 cubic feet per hour and 836.58 x 10^6 cubic feet per year.
   [Rule 62-212.400, FAC, and Rule 2.401, JEPB]

5. The maximum biogas usage for Boilers Nos. 1, 2, 3, and 4 shall not exceed 57,389 cubic feet per hour.
   [Rule 62-212.400, FAC, and Rule 2.401, JEPB]

6. The maximum production and burning of biogas for the facility shall not exceed 400 x 10^6 cubic feet per year.
   [Rule 62-212.400, FAC, and Rule 2.401, JEPB]

7. Sulfur dioxide (SO_2) and particulate matter (PM) emissions shall be controlled in accordance with the Best Available Control Technology (BACT) Determination.
   [Rules 62-296.406(2) and (3), FAC, and Rule 2.1001, JEPB]

8. Nitrogen oxides (NO_x), carbon monoxide (CO), and volatile organic compounds (VOC) emissions shall be controlled in accordance with Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB.

9. The maximum allowable emissions shall be limited as follows:

Pollutant	lbs/hr	tons/yr	Total (Four Boilers) tons/yr	Other lbs/10^6 Btu
PM				
(No. 2 Fuel Oil)	9.20	40.30	84.80	0.1
(Natural Gas)	0.50	2.19	8.40	
(Biogas)	1.00	1.10	1.10	
SO_2				
(No. 2 Fuel Oil)	46.33	202.93	496.25	
(Natural Gas)	0.10	0.44	1.20	
(Biogas)	73.70	37.20	37.20	
NO_x				
(No. 2 Fuel Oil)	36.80	161.18	338.70	0.4
(Natural Gas)	24.30	106.43	424.90	0.25
(Biogas)	18.40	20.80	20.80	
CO				
(No. 2 Fuel Oil)	3.10	13.58	28.30	
(Natural Gas)	8.02	35.14	140.55	
(Biogas)	4.90	16.80	16.80	
VOC				
(No. 2 Fuel Oil)	0.20	0.88	3.50	
(Natural Gas)	0.30	1.31	5.20	
(Biogas)	1.00	1.10	1.10	

10. VE shall not exceed 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 2.1001, JEPB]

11. The maximum sulfur content of the No. 2 fuel oil shall not exceed 0.5% by weight.
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

Test Methods and Procedures

12. 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 2.1101, JEPB]

13. 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 2.1101, JEPB]

14. VE shall be tested for permit renewal (i.e., 270 days prior to permit expiration).
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

15. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 6 (as described in 40 CFR 60, Appendix A) for sulfur dioxide.
[Rule 62-297.310(4), FAC, and Rule 2.1101, JEPB]

16. Testing for demonstration of compliance shall be performed in accordance with EPA RM 7 or 7E (as described in 40 CFR 60, Appendix A) for nitrogen oxides.
[Rule 62-297.310(4), FAC, and Rule 2.1101, JEPB]

17. NO_x shall be tested four (4) years from the date of December 1, 2007. NO_x testing shall be conducted while burning natural gas.
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

18. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 10 (as described in 40 CFR 60, Appendix A) for carbon monoxide.
[Rule 62-297.310(4), FAC, and Rule 2.1101, JEPB]

19. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 25A (as described in 40 CFR 60, Appendix A) for volatile organic compounds.
[Rule 62-297.310(4), FAC, and Rule 2.1101, JEPB]

20. No. 2 fuel oil sulfur content shall be determined through certification by the fuel oil supplier (annually). Alternate testing may be through the use of ASTM Methods approved specifically for determining sulfur content in No. 2 fuel oil (distillate oil).
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

Recordkeeping and Reporting Requirements

21. Monthly records shall be maintained for the following:
    a. Cubic feet of natural gas fired
    b. Gallons of No. 2 fuel oil fired
    c. Sulfur content of No. 2 fuel oil
    d. Cubic feet of biogas fired

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

Emissions Unit No. 004 – Boiler No. 4

Emissions Unit Description – The operation of a 97 x 10^6 Btu per hour B&W Boiler providing steam for the brewery fired with No. 2 fuel oil, natural gas, and biogas generated by the anaerobic pretreatment facility.

Essential Potential to Emit (PTE) Parameters

1. 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

2. The maximum heat input rate shall be limited as follows:
    a. 97 x 10^6 Btu per hour while firing natural gas.
    b. 92 x 10^6 Btu per hour and 225 x 10^6 Btu per hour total for Boilers Nos. 1, 2, 3, and 4 while firing No. 2 fuel oil or a combination of No. 2 fuel oil and biogas.
    c. 40 x 10^6 Btu per hour of biogas for Boilers 1, 2, 3, and 4 combined while firing in combination with natural gas or No. 2 fuel oil.

    [Rule 62-212.400, FAC, and Rule 2.401, JEPB]

3. The annual No. 2 fuel oil usage for Boilers Nos. 1, 2, 3, and 4 shall not exceed 11,312,000 gallons.
[Rule 62-212.400, FAC, and Rule 2.401, JEPB]

4. The natural gas usage for Boiler No. 4 shall not exceed 95,500 cubic feet per hour and 836.58 x 10^6 cubic feet per year.
   [Rule 62-212.400, FAC, and Rule 2.401, JEPB]

5. The maximum biogas usage for Boilers Nos. 1, 2, 3, and 4 shall not exceed 57,389 cubic feet per hour.
   [Rule 62-212.400, FAC, and Rule 2.401, JEPB]

6. The maximum production and burning of biogas for the facility shall not exceed 400 x 10^6 cubic feet per year.
   [Rule 62-212.400, FAC, and Rule 2.401, JEPB]

7. Sulfur dioxide (SO_2) and particulate matter (PM) emissions shall be controlled in accordance with the Best Available Control Technology (BACT) Determination.
   [Rules 62-296.406(2) and (3), FAC, and Rule 2.1001, JEPB]

8. Nitrogen oxides (NO_x), carbon monoxide (CO), and volatile organic compounds (VOC) emissions shall be controlled in accordance with Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB.

9. The maximum allowable emissions shall be limited as follows:

Pollutant	**lbs/hr**	**tons/yr**	**Total (Four Boilers) tons/yr**	**Other lbs/10^6 Btu**
PM				
(No. 2 Fuel Oil)	9.20	40.30	84.80	0.1
(Natural Gas)	0.50	2.19	8.40	
(Biogas)	1.00	1.10	1.10	
SO_2				
(No. 2 Fuel Oil)	46.33	202.93	496.25	
(Natural Gas)	0.10	0.44	1.20	
(Biogas)	73.70	37.20	37.20	
NO_x				
(No. 2 Fuel Oil)	36.80	161.18	338.70	0.4
(Natural Gas)	24.30	106.43	424.90	0.25
(Biogas)	18.40	20.80	20.80	
CO				
(No. 2 Fuel Oil)	3.10	13.58	28.30	
(Natural Gas)	8.02	35.14	140.55	
(Biogas)	4.90	16.80	16.80	
VOC				
(No. 2 Fuel Oil)	0.20	0.88	3.50	
(Natural Gas)	0.30	1.31	5.20	
(Biogas)	1.00	1.10	1.10	

10. VE shall not exceed 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 2.1001, JEPB]

11. The maximum sulfur content of the No. 2 fuel oil shall not exceed 0.5% by weight.
    [Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

Test Methods and Procedures

12. 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 2.1101, JEPB]

13. 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 2.1101, JEPB]

14. VE shall be tested for permit renewal (i.e., 270 days prior to permit expiration).
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

15. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 6 (as described in 40 CFR 60, Appendix A) for sulfur dioxide.
[Rule 62-297.310(4), FAC, and Rule 2.1101, JEPB]

16. Testing for demonstration of compliance shall be performed in accordance with EPA RM 7 or 7E (as described in 40 CFR 60, Appendix A) for nitrogen oxides.
[Rule 62-297.310(4), FAC, and Rule 2.1101, JEPB]

17. NO_x shall be tested four (4) years from the date of December 1, 2007. NO_x testing shall be conducted while burning natural gas.
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

18. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 10 (as described in 40 CFR 60, Appendix A) for carbon monoxide.
[Rule 62-297.310(4), FAC, and Rule 2.1101, JEPB]

19. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 25A (as described in 40 CFR 60, Appendix A) for volatile organic compounds.
[Rule 62-297.310(4), FAC, and Rule 2.1101, JEPB]

20. No. 2 fuel oil sulfur content shall be determined through certification by the fuel oil supplier (annually). Alternate testing may be through the use of ASTM Methods approved specifically for determining sulfur content in No. 2 fuel oil (distillate oil).
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

Recordkeeping and Reporting Requirements

21. Monthly records shall be maintained for the following:
    a. Cubic feet of natural gas fired
    b. Gallons of No. 2 fuel oil fired
    c. Sulfur content of No. 2 fuel oil
    d. Cubic feet of biogas fired

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

Emissions Unit No. 009 – Grain Conveying System I

Emissions Unit Description – The conveying of grain received by the facility.

Particulate matter (PM) control device - Buhler MIAG AFSA 18-8 Type B-225 Bag Filter

Note: Emission unit No. 009 has been determined to be insignificant and has been added to Appendix I.

Emissions Unit No. 010 – Grain Conveying System II

Emissions Unit Description – The conveying of grain received by the facility.

Particulate matter (PM) control device - Buhler MIAG AFSA 18-8 Type B-225 Bag Filter

Note: Emission unit No. 010 has been determined to be insignificant and has been added to Appendix I.

Emissions Unit No. 011 – Grain Building Dust Collection System I

Emissions Unit Description – The dust collection system for the Grains Building.

Particulate matter (PM) control device - Buhler MIAG AFSA 64-8 Type A-25 Bag Filter

Essential Potential to Emit (PTE) Parameters

1. The maximum process rate shall not exceed 80,000 pounds per hour.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate from this emissions unit is 6,700 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 grains per dry standard cubic foot, 1.72 pounds per hour, and 7.53 tons per year.
   [Rule 62-296.711(2), FAC, and Rule 2.1001, JEPB]

5. VE shall not exceed 5 percent opacity.
   [Rule 62-296.711(2), FAC, and Rule 2.1001, 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 2.1101, 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 62-297.310(4)(a)2., FAC, and Rule 2.1101, JEPB]

8. VE shall be tested five (5) years from the date of August 1, 2007.
   [Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

Recordkeeping and Reporting Requirements

9. An Operation and Maintenance Plan shall be attached to and shall be part of this permit. All activities shall be performed as scheduled and recorded. Data shall be made available to the Department upon request. Records shall be maintained on file for a minimum period of five (5) years.
[Rule 62-296.700(6), FAC, and Rule 2.1001, JEPB]

Emissions Unit No. 012 – Grain Building Dust Collection System II

Emissions Unit Description – The dust collection system for the Grains Building.

Particulate matter (PM) control device - Buhler MIAG AFSA 64-8 Type A-25 Bag Filter

Essential Potential to Emit (PTE) Parameters

1. The maximum process rate shall not exceed 80,000 pounds per hour.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate from this emissions unit is 6,700 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 grains per dry standard cubic foot, 1.72 pounds per hour, and 7.53 tons per year.
[Rule 62-296.711(2), FAC, and Rule 2.1001, JEPB]

5. VE shall not exceed 5 percent opacity.
[Rule 62-296.711(2), FAC, and Rule 2.1001, 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 2.1101, 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 62-297.310(4)(a)2., FAC, and Rule 2.1101, JEPB]

8. VE shall be tested five (5) years from the date of August 1, 2007.
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

Recordkeeping and Reporting Requirements

9. An Operation and Maintenance Plan shall be attached to and shall be part of this permit. All activities shall be performed as scheduled and recorded. Data shall be made available to the Department upon request. Records shall be maintained on file for a minimum period of five (5) years.

[Rule 62-296.700(6), FAC, and Rule 2.1001, JEPB]

Emissions Unit No. 013 – Grain Unloading II

Emissions Unit Description – The operation of the pneumatic grain unloading system for transferring grain from railcars to storage bins.

Particulate matter (PM) control device - Buhler Model RPPR-41/6 Bag Filter

Essential Potential to Emit (PTE) Parameters

1. The maximum process rate shall not exceed 80,000 pounds per hour.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate from this emissions unit is 2,600 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 grains per dry standard cubic foot, 0.67 pound per hour, and 2.93 tons per year.
   [Rule 62-296.711(2), FAC, and Rule 2.1001, JEPB]

5. VE shall not exceed 5 percent opacity.
   [Rule 62-296.711(2), FAC, and Rule 2.1001, 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 2.1101, 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 62-297.310(4)(a)2., FAC, and Rule 2.1101, JEPB]

8. VE shall be tested five (5) years from the date of August 1, 2007.
   [Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

Recordkeeping and Reporting Requirements

9. An Operation and Maintenance Plan shall be attached to and shall be part of this permit. All activities shall be performed as scheduled and recorded. Data shall be made available to the Department upon request. Records shall be maintained on file for a minimum period of five (5) years.
   [Rule 62-296.700(6), FAC, and Rule 2.1001, JEPB]

Emissions Unit No. 017 – Grain Unloading I

Emissions Unit Description – The operation of the pneumatic grain unloading system for transferring grain from railcars to storage bins.

Particulate matter (PM) control device - Carter Day Model 24RJ60 Dust Collector

Essential Potential to Emit (PTE) Parameters

1. The maximum process rate shall not exceed 60,000 pounds per hour.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate from this emissions unit is 2,300 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 grains per dry standard cubic foot, 0.59 pound per hour, and 2.58 tons per year.
   [Rule 62-296.711(2), FAC, and Rule 2.1001, JEPB]

5. VE shall not exceed 5 percent opacity.
   [Rule 62-296.711(2), FAC, and Rule 2.1001, 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 2.1101, 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 62-297.310(4)(a)2., FAC, and Rule 2.1101, JEPB]

8. VE shall be tested five (5) years from the date of August 1, 2007.
   [Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

Recordkeeping and Reporting Requirements

9. An Operation and Maintenance Plan shall be attached to and shall be part of this permit. All activities shall be performed as scheduled and recorded. Data shall be made available to the Department upon request. Records shall be maintained on file for a minimum period of five (5) years.
   [Rule 62-296.700(6), FAC, and Rule 2.1001, JEPB]

Emissions Unit No. 018 – Grain Area Vacuum Cleaning System I

Emissions Unit Description – The operation of the grain area vacuum cleaning system.

Particulate matter (PM) control device - Hoffman Bag Separator

Note: Emission unit No. 018 has been determined to be insignificant and has been added to Appendix I.

Emissions Unit No. 025 – Bulk Salt Unloading

Emissions Unit Description – The operation of the bulk salt unloading and storage silo system.

Particulate matter (PM) control device - Baghouse

Note: Emission unit No. 025 has been determined to be insignificant and has been added to Appendix I.

Emissions Unit No. 027 - Combustion Turbine

Emissions Unit Description - A 97.7 x 10^6 Btu per hour Solar Mars gas fired turbine equipped with a 9.114 MW generator. The combustion turbine is subject to a determination of Prevention of Significant Deterioration (PSD-FL-115), and Best Available Control Technology (BACT) for nitrogen oxides.

Essential Potential to Emit (PTE) Parameters

1. The maximum heat input shall not exceed 97.7 x 10^6 Btu per hour of natural gas corrected to ISO conditions (based on lower heating value as described in 40 CFR 60, Subpart GG). Natural gas consumption shall be limited to 106,970 cubic feet per hour corrected to ISO conditions.
   [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. The combustion turbine shall be subject to the provisions of 40 CFR 60, Subpart GG - Standards of Performance for Stationary Gas Turbines, and 40 CFR 60, Subpart A - General Provisions.

4. Emissions of nitrogen oxides (NO_x) shall be limited as follows:

$$\mathbf{STD = 0.0150 \frac{(14.4)}{Y} + F}$$

Where:
STD = allowable NO_x emissions (percent by volume at 15 percent oxygen and on a dry basis).

Y = manufacturers' rated heat rate at manufacturers' rated peak load (kilojoules per watt hour), or actual measured heat rate based on lower heating value of fuel as measured at actual peak load for the facility. The value of Y shall not exceed 14.4 kilojoules per watt hour.

F = NO_x emission allowance for fuel-bound nitrogen as defined in the following:

F shall be defined according to the nitrogen content of the fuel

Fuel-bound nitrogen (percent by weight)	F (NO_x percent by volume)
N<0.015	0
0.015<N<0.1	0.04 (N)
0.1<N<0.25	0.004+0.0067 (N-0.1)
N>0.25	0.005

Where: N = the nitrogen content of the fuel (percent by weight)

[40 CFR 60.332(a)(2), Rule 62-212.400(5), FAC, and Rule 2.401, JEPB]

5. NO_x emissions shall not exceed 75.00 pounds per hour and 328.50 tons per year in accordance with BACT Determination.
[Rule 62-212.400(5), FAC, and Rule 2.401, JEPB]

6. Emissions of sulfur dioxide in the discharge gases shall not exceed 0.015 percent by volume at 15 percent oxygen and on a dry basis in accordance with 40 CFR 60.333(a).
[Rule 62-204.800, FAC, and Rule 2.501, JEPB]

7. VE shall not exceed 5 percent opacity in accordance with BACT Determination.
[Rule 62-212.400(5), FAC, and Rule 2.401, JEPB]

Test Methods and Procedures

8. Compliance with NO_x emission rate in accordance with 40 CFR 60.335(c) shall be computed for each run using the following equation:

$$NO_x = (NO_{xo})\,(P_r/P_o)^{0.5}\, e^{19(Ho-0.00633)}\,(288^o K/T_a)^{1.53}$$

Where:
NO_x = emission rate of NO_x at 15 percent oxygen and ISO standard ambient conditions, volume percent.
NO_{xo} = observed NO_x concentration, ppm by volume.
P_r = reference combustor inlet absolute pressure at 101.3 kilopascals ambient pressure, mm Hg.
P_o = observed combustor inlet absolute pressure at test, mm Hg.
H_o = observed humidity of ambient air, g H_2O/g air.
e = transcendental constant, 2.718.
T_a = ambient temperature, ^oK.

9. Fuel consumption shall be determined during each test run. All loads shall be corrected to ISO conditions using the appropriate equations supplied by the manufacturer in accordance with 40 CFR 60.335(c)(2).

10. EPA RM 20 shall be used to determine the nitrogen oxides, sulfur dioxide, and oxygen concentrations. The span values shall be 300 ppm of nitrogen oxide and 21 percent oxygen. The nitrogen content of the fuel being fired during the compliance test shall be determined from a sample taken on or about the day of the compliance test in accordance with 40 CFR 60.335(c)(3).

11. 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 2.1101, JEPB]

12. Testing for nitrogen oxides, sulfur dioxide, and visible emissions while burning natural gas shall be conducted annually from the date of March 1, 2007.
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

13. Testing for demonstration of compliance shall be performed in accordance with 40 CFR 60.335.

Monitoring of Operations

14. The combustion turbine natural gas usage shall be metered and recorded daily. Data shall be maintained for a minimum of five (5) years and made available to the Department upon request.
[Rule 62-212.400(5), FAC, and Rule 2.401, JEPB]

Emissions Unit No. 028 – Duct Burner & Heat Recovery Boiler

Emissions Unit Description - A 40.5 x 10^6 Btu per hour (maximum rated capacity) duct burner and heat recovery boiler fired by natural gas and biogas. The duct burner and heat recovery boiler is subject to a determination of Prevention of Significant Deterioration (PSD-FL-115), and BACT for nitrogen oxides.

Essential Potential to Emit (PTE) Parameters

1. 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

2. The maximum heat input shall be limited to 38.0 x 10^6 Btu per hour of natural gas and biogas.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. The maximum production and burning of biogas for the facility shall not exceed 400 x 10^6 cubic feet per year.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

4. NO_x emissions shall not exceed 0.1 pound per 10^6 Btu heat input, 7.2 pounds per hour, and 20.8 tons per year in accordance with BACT Determination.
[Rule 62-212.400(5), FAC, and Rule 2.401, JEPB]

5. VE shall not exceed 5 percent opacity in accordance with BACT Determination.
[Rule 62-212.400(5), FAC, and Rule 2.401, JEPB]

6. PM emissions shall not exceed 0.4 pound per hour, and 1.1 ton per year.
[Rule 62-212.300(1)(d), FAC, and Rule 2.401, JEPB]

7. CO emissions shall not exceed 21.7 pounds per hour, and 76.5 tons per year.
[Rule 62-212.300(1)(d), FAC, and Rule 2.401, JEPB]

8. VOC emissions shall not exceed 1.6 pound per hour, and 3.7 tons per year.
[Rule 62-212.300(1)(d), FAC, and Rule 2.401, JEPB]

9. SO_2 emissions shall not exceed 28.9 pounds per hour, and 37.2 tons per year.
[Rule 62-212.300(1)(d), FAC, and Rule 2.401, JEPB]

Test Methods and Procedures

10. Testing for demonstration of compliance, upon request, shall be performed while firing biogas 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 2.1101, JEPB]

11. Testing for demonstration of compliance shall be performed while firing biogas 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 2.1101, JEPB]

12. VE shall be tested annually from the date of May 1, 2007.
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

13. Testing for demonstration of compliance, upon request, shall be performed while firing biogas in accordance with EPA RM 6 (as described in 40 CFR 60, Appendix A) for sulfur dioxide.
[Rule 62-297.310(4), FAC, and Rule 2.1101, JEPB]

14. Testing for demonstration of compliance shall be performed while firing biogas in accordance with EPA RM 7 or 20 (as described in 40 CFR 60, Appendix A) for nitrogen oxides.
[Rule 62-297.310(4), FAC, and Rule 2.1101, JEPB]

15. NO_x shall be tested annually from the date of May 1, 2007.
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

16. Testing for demonstration of compliance, upon request, shall be performed while firing biogas in accordance with EPA RM 10 (as described in 40 CFR 60, Appendix A) for carbon monoxide.
[Rule 62-297.310(4), FAC, and Rule 2.1101, JEPB]

17. Testing for demonstration of compliance, upon request, shall be performed while firing biogas in accordance with EPA RM 25 or 25A (as described in 40 CFR 60, Appendix A) for volatile organic compounds.
[Rule 62-297.310(4), FAC, and Rule 2.1101, JEPB]

Recordkeeping and Reporting Requirements

18. Monthly records shall be maintained for the following:
    a. Cubic feet of natural gas fired
    b. Cubic feet of biogas fired

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

Emissions Unit No. 031 – Biogas Flare

Emissions Unit Description – The operation of a flare for control of excess biogas production of the anaerobic pretreatment facility as a result of insufficient steam demand and mechanical malfunctions.

Essential Potential to Emit (PTE) Parameters

1. 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

2. The maximum heat input rate shall not exceed 59.1 x 10^6 Btu per hour.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. The maximum biogas combustion shall not exceed 78,000 cubic feet per hour.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

4. The maximum production and burning of biogas for the facility shall not exceed 400 x 10^6 cubic feet per year.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

5. No VE shall be allowed.
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

Test Methods and Procedures

6. Testing for demonstration of compliance shall be performed annually in accordance with EPA RM 22 (as described in 40 CFR 60, Appendix A) for visible emissions. EU 031 is exempt from the provisions of Section II. Facility-wide Condition No. 11.
[Rule 62-204.800, FAC, and Rule 2.201, JEPB]

7. VE shall be tested annually from the date of May 1, 2007.
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

Recordkeeping and Reporting Requirements

8. Monthly records shall be maintained for the cubic feet of biogas fired. Records shall be maintained for a minimum of five (5) years and made available to the Department upon request.
[Rule 62-213.440(1)(b), FAC, and Rule 2.501, JEPB]

Emissions Unit No. 032 – Backup Biogas Flare

Emissions Unit Description – The operation of a flare for control of excess biogas production of the anaerobic pretreatment facility as a result of insufficient steam demand and mechanical malfunctions.

Essential Potential to Emit (PTE) Parameters

1. 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

2. The maximum heat input rate not exceed 59.1 x 10^6 Btu per hour.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. The maximum biogas combustion shall not exceed 78,000 cubic feet per hour.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

4. The maximum production and burning of biogas for the facility shall not exceed 400 x 10^6 cubic feet per year.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

5. No VE shall be allowed.

[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

Test Methods and Procedures

6. Testing for demonstration of compliance shall be performed annually in accordance with EPA RM 22 (as described in 40 CFR 60, Appendix A) for visible emissions. EU 032 is exempt from the provisions of Section II. Facility-wide Condition No. 11.
[Rule 62-204.800, FAC, and Rule 2.201, JEPB]

7. VE shall be tested annually from the date of May 1, 2007.
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

Recordkeeping and Reporting Requirements

8. Monthly records shall be maintained for the cubic feet of biogas fired. Records shall be maintained for a minimum of five (5) years and made available to the Department upon request.
[Rule 62-213.440(1)(b), FAC, and Rule 2.501, JEPB]

Emissions Unit No. 033 – H_2S Scrubber

Emissions Unit Description – The operation of a scrubber to control odor and hydrogen sulfide emissions from the anaerobic pretreatment facility reactor, and equalization tank.

Essential Potential to Emit (PTE) Parameters

1. 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

2. The maximum H_2S emissions shall not exceed 0.05 pounds per hour, and 0.04 tons per year.
[Permit AC16-170993, Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

Test Methods and Procedures

3. Testing for demonstration of compliance shall be performed in accordance with EPA RM 15 (as described in 40 CFR 60, Appendix A) for hydrogen sulfides or an alternate test method approved by the Department.
[Rule 62-297.310(4), FAC, and Rule 2.1101, JEPB]

4. H_2S shall be tested five (5) years from the date of May 1, 2007.
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

Emissions Unit No. 034 – K-5 Beer Filter

Emissions Unit Description – The operation of a diatomaceous earth slurry process used to filter beer prior to packaging.

Particulate matter (PM) control device - Torit Dust Collector

Note: Emission unit No. 034 has been determined to be insignificant and has been added to Appendix I.

Emissions Unit No. 035 – Filter Media Storage Silos

Emissions Unit Description – The operation of two (2) filter media storage silos. Diatomaceous Earth and Perlite are used as filter media at the brewery's water treatment facility.

Particulate matter (PM) control device - Two (2) MAC Model 72AVS25II Dust Collectors

Essential Potential to Emit (PTE) Parameters

1. The maximum process rate shall not exceed 40,000 pounds per hour for each silo.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

2. The nominal volumetric flow rate from this emissions unit is 1,300 cubic feet per minute for each silo.
   [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 for each silo.
   [Rule 62-210.200, FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

4. PM emissions for each silo shall not exceed 0.03 grains per dry standard cubic foot, 0.33 pound per hour, and 1.46 tons per year.
   [Rule 62-296.711(2), FAC, and Rule 2.1001, JEPB]

5. VE for each silo shall not exceed 5 percent opacity.
   [Rule 62-296.711(2), FAC, and Rule 2.1001, JEPB]

Test Methods and Procedures

6. Testing of each silo 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 2.1101, JEPB]

7. Testing of each silo 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 2.1101, JEPB]

8. VE shall be tested five (5) years from the date of August 1, 2007.
   [Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

Recordkeeping and Reporting Requirements

9. An Operation and Maintenance Plan shall be attached to and shall be part of this permit. All activities shall be performed as scheduled and recorded. Data shall be made available to the Department upon request. Records shall be maintained on file for a minimum period of five (5) years.
   [Rule 62-296.700(6), FAC, and Rule 2.1001, JEPB]

Emission Unit No. 036 - Bulk Gypsum System

Emission Unit Description – The operation of a bulk gypsum unloading and handling system.

Control Device – MAC Equipment, Inc. Model 39AVSC16 Baghouse

Note: Emission unit No. 036 has been determined to be insignificant and has been added to Appendix I.