

# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

## STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION NOTICE OF PERMITS

Mr. John P. Wilchek  
Anheuser-Busch, Inc.  
202-4, One Busch Place  
St. Louis, MO 63118

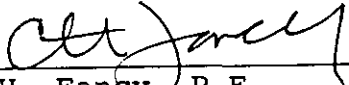
March 14, 1990

Enclosed are construction permits Nos. AC 16-170992, -170993, -170994, and -170995 for Anheuser-Busch, Inc. to construct an anaerobic pretreatment facility at the Jacksonville brewery in Duval County, Florida. These permits are issued pursuant to Section 403, Florida Statutes.

Any party to these permits has the right to seek judicial review of these permits pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date these permits are filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
\_\_\_\_\_  
C. H. Fancy, P.E.  
Chief  
Bureau of Air Regulation

Copies furnished to:

- A. Kutyna, NE District
- R. Roberson, BESD
- D. Pusch, Anheuser-Busch, Inc.
- C. Nolan, P.E.

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on 3-15-90.

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
§120.52(9), Florida Statutes, with  
the designated Department Clerk,  
receipt of which is hereby  
acknowledged.

Terri Deper  
Clerk

3-15-90  
Date

Final Determination

Anheuser-Busch Companies  
Duval County  
Jacksonville, Florida

Anaerobic Pretreatment Facility

<u>Permit No.</u>	<u>Source</u>
AC 16-170992	12MMBTU/hr Wastewater Boiler
AC 16-170993	Flare
AC 16-170994	Back-up Flare
AC 16-170995	Scrubber

Department of Environmental Regulation  
Division of Air Resources Management  
Bureau of Air Regulation

March 2, 1990

## Final Determination

Anheuser-Busch, Inc.'s application for a permit to construct an anaerobic pretreatment facility at their existing brewery in Duval County, Florida, has been reviewed by the Bureau of Air Regulation.

Public Notice of the Department's Intent to Issue the construction permit was published in the Florida Times Union on February 2, 1990.

Copies of the Preliminary Determination have been available for public inspection at the Department's Northeast District office in Jacksonville, Florida, the Duval County Dept. of Health, Welfare and Bio-Environmental Services (BESD) in Jacksonville, and the Department's Bureau of Air Regulation in Tallahassee.

No comments were received as a result of the public notice. However, Ronald L. Roberson, associate engineer for BESD, requested some clarification regarding the expiration date of existing construction permits Nos. AC 16-119130 and AC 16-119132. The Bureau has analyzed his request and offers the following clarification: The expiration dates of AC 16-119130 and AC 16-119132 were extended to allow sufficient time to finish modifications to accommodate the burning of biogas in the existing boilers and to be consistent with the expiration date of all of the permits for the anaerobic treatment facility project. It should be noted that compliance for these existing boilers shall be demonstrated while burning oil (existing construction permit).

Specific Condition No. 10, Permit AC 16-119132, for the Duct Burner requires compliance while burning biogas, the permit allows an alternative to use emission factors established when testing the 12 MMBTU/hr wastewater boiler (when burning biogas) for compliance determination of this burner. The existing duct burner's compliance schedule should be followed as stated in the current operating permit. A change is required when all the design modification to accommodate the burning of biogas is finished. Then, the operating permit condition to demonstrate compliance should be changed as indicated in the attached Department letter of January 19, 1990.

The final action of the Department will be to issue the permit as noticed during the public notice period.



# Florida Department of Environmental Regulation

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Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

**PERMITTEE:**

Anheuser-Busch, Inc.  
One Busch Place (202-4)  
St. Louis, Missouri 63118

Permit Number: AC 16-170992  
Expiration Date: October 30, 1991  
County: Duval

Latitude/Longitude: 26°43'03"N  
81°29'49"W

Project: Anaerobic Pretreatment  
Facility 12 MMBtu/hr Wastewater Boiler

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 17-2 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the installation of a 12 MMBtu/hr wastewater boiler. This boiler will be fired with natural gas and/or biogas and is part of an anaerobic pretreatment facility at the Anheuser-Busch, Incorporated's existing beer brewery located in Jacksonville, Duval County, Florida. The UTM coordinates of this site are zone 17, 437.9 km E and 3366.8 km N.

The source shall be constructed in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. DER application Form 17-1.202(1) and letter dated September 12, 1989.
2. DER letter dated October 30, 1989.
3. Company letters dated November 7, 1989 and December 5, 1989.

PERMITTEE:  
Anheuser-Busch, Inc.

Permit Number: AC 16-170992  
Expiration Date: October 30, 1991

**GENERAL CONDITIONS:**

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

PERMITTEE:  
Anheuser-Busch, Inc.

Permit Number: AC 16-170992  
Expiration Date: October 30, 1991

**GENERAL CONDITIONS:**

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

PERMITTEE:  
Anheuser-Busch, Inc.

Permit Number: AC 16-170992  
Expiration Date: October 30, 1991

GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- (x) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- ( ) Compliance with New Source Performance Standards (NSPS)

14. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.



PERMITTEE:  
Anheuser-Busch, Inc.

Permit Number: AC 16-170992  
Expiration Date: October 30, 1991

**GENERAL CONDITIONS:**

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

c. Records of monitoring information shall include:

- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

14. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

**SPECIFIC CONDITIONS:**

Wastewater Boiler, 12 MMBtu/hr Heat Input

1. The maximum allowable emissions from burning the entire annual production of 292 million cubic feet of biogas shall not exceed the following limits:

<u>Pollutant</u>	<u>Lbs Per Hour</u>	<u>Tons Per Year</u>	<u>Emission Factors</u>
PM/PM <sub>10</sub>	1.0	1.1	0.005 lb/MMBtu
NO <sub>x</sub>	18.4	20.8	0.1 lb/MMBtu
CO	21.7	76.5	1.4 lb/MMBtu
VOC	1.6	3.7	0.016 lb/MMBtu
SO <sub>2</sub>	73.7	37.2	0.76 lb/MMBtu
H <sub>2</sub> S	0.05	0.04	

PERMITTEE:  
Anheuser-Busch, Inc.

Permit Number: AC 16-170992  
Expiration Date: October 30, 1991

SPECIFIC CONDITIONS:

2. Maximum H<sub>2</sub>S content in the biogas shall not exceed 0.40%.
3. Visible emissions shall not exceed 20 percent opacity.
4. This source shall be allowed to operate continuously (8760 hrs/yr).
5. Pursuant to F.A.C. Rule 17-2.620(2), objectionable odors are prohibited from this facility.
6. The maximum emission rates for the 12 MMBtu/hr wastewater boiler shall not exceed any of the following limits:

<u>Pollutant</u>	<u>Emission Rate</u>	
	<u>lb/hr</u>	<u>TPY</u>
PM/PM <sub>10</sub>	0.1	0.3
Sulfur Dioxide	9.1	18.0
Nitrogen Oxides	1.2	5.3
Volatile Organic Compounds	0.2	0.8
<u>Carbon Monoxide</u>	<u>10.0</u>	<u>73.6</u>

7. Before this construction permit expires the boiler shall be tested for sulfur dioxide, hydrogen sulfide, carbon monoxide, visible emissions and nitrogen oxides. Except as provided under 40 CFR 60.8(b), the performance tests shall be in accordance with the provisions of the following reference methods which are described in Appendix A of 40 CFR 60.

- a. Method 1. Sample and Velocity Traverses.
- b. Method 2. Volumetric Flow Rate.
- c. Method 3. Gas Analysis.
- d. Compliance with the opacity limitation shall be determined by EPA Reference Method 9, Visual Determination of Opacity of Emission from Stationary Sources.
- e. Compliance with the sulfur dioxide emission limit shall be determined by calculations based on fuel analysis (ASTM D1552) for sulfur content.

PERMITTEE:  
Anheuser-Busch, Inc.

Permit Number: AC 16-170992  
Expiration Date: October 30, 1991

SPECIFIC CONDITIONS:


- f. Compliance with the allowable emission limit for nitrogen oxides shall be determined by using EPA Reference Method 7, Determination of Nitrogen Oxide Emissions from Stationary Sources.
  - g. Compliance with the hydrogen sulfide emission shall be determined by using EPA Reference Method 15, Determination of Hydrogen Sulfide, Carbonyl Sulfide, and Carbon Disulfide Emission for Stationary Sources.
  - h. Compliance with the carbon monoxide emission shall be determined by using EPA Reference Method 10, Determination of Carbon Monoxide Emissions from Stationary Sources.
8. Tests results will be the average of 3 valid runs. The boiler shall be tested while burning biogas. The emission limits shall not exceed the rates specified in Specific Condition No. 1. The Bio-Environmental Services Division shall be notified at least 15 days in advance of the compliance test. The test will be conducted within 90-100% of permitted capacity.
9. This source shall comply with all applicable provisions of Chapter 17-2 F.A.C. and Chapter 403 Florida Statutes.
10. Upon obtaining a permit to operate, the permittee shall be required to submit annual reports on the actual parameters and emissions from this source. Annual reports shall be sent to the Bio-Environmental Services Division (BESD) in Jacksonville.
11. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).
12. An application for an operation permit must be submitted to the Bio-Environmental Services Division office in Jacksonville at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rule 17-4.220).

PERMITTEE:  
Anheuser-Busch, Inc.

Permit Number: AC 16-170992  
Expiration Date: October 30, 1991

Issued this 13<sup>th</sup> day  
of March, 1990

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
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STEVE SMALLWOOD, P.E.  
Director  
Division of Air Resources  
Management

Best Available Control Technology (BACT) Determination  
Anheuser-Busch, Inc.  
Duval County

The applicant plans to install and operate a 12.0 MMBtu/hr wastewater boiler at their facility in Jacksonville, Florida. The boiler, which will fire natural gas or biogas, is scheduled to operate 8,760 hours per year.

BACT Determination Requested by the Applicant:

The applicant has requested that natural gas or biogas with a maximum H<sub>2</sub>S concentration of 4,000 ppm by weight be used.

BACT Determination by DER:

The amount of particulate and sulfur dioxide emissions emitted from the boiler shall be limited by the firing of natural gas or biogas containing no more than 4,000 ppm of H<sub>2</sub>S by weight.

BACT Determination Rationale:

Sulfur in fuel is a primary air pollution concern, in that most of the fuel sulfur becomes SO<sub>2</sub> and particulate emissions from fuel burning are related to the sulfur content. The firing of natural gas or biogas containing no more than 4,000 ppm H<sub>2</sub>S shall be BACT for the boiler. The emissions of sulfur dioxide from natural gas combustion is negligible. The level of sulfur in the proposed biogas is equivalent to residual oil with a sulfur content of 0.72 percent, which would be considered BACT.

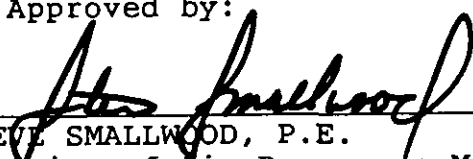
Details of the Analysis May be Obtained by Contacting:

Barry Andrews, P.E., BACT Coordinator  
Department of Environmental Regulation  
Bureau of Air Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Recommended by:

Approved by:

  
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C. H. Fancy, P.E., Chief  
Bureau of Air Regulation

  
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STEVE SMALLWOOD, P.E.  
Division of Air Resources Mgmt.

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Date March 9, 1990

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Date March 13, 1990