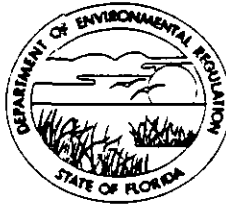


TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



FILE
C4

BOB GRAHAM
GOVERNOR
JACOB D. VARN
SECRETARY

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

FL. TIMES UNION
ONE RIVERSIDE AV.
JACKSONVILLE, FL 32202

9/15/81

Dear Sir:

We are forwarding to you a legal/classified advertisement to be published:

ASAP - ONE TIME ONLY

Subject: CONSTRUCTION PERMIT

To ensure prompt payment, please send an invoice and proof of publication for legal ads to the address below:

Department of Environmental Regulation
PURCHASING OFFICE
2600 Blair Stone Road
Tallahassee, FL 32301

If you have any questions, please contact us at 904/488/0870.

Sincerely,

William H. Wallace
Purchasing Office

Enclosure: (1)



The Florida Department of Environmental Regulation (DER) has received an application from and intends to issue a Construction Permit to Anheuser-Busch Companies Inc. P. O. Box 18017 A.M.F. for the modification of boiler operating conditions to be located at 111 Busch Drive, Jacksonville, Florida in Duval County, Florida. A determination of Best Available Control Technology was not required. Copies of the Application, Technical Evaluation, and Departmental Intent are available for inspection at the following offices:

DER Bureau of Air Qual. Mgmt.	St. Johns River Subdistrict
2600 Blair Stone Road	3426 Bills Road
Tallahassee, Florida 32301	Jacksonville, Florida 32207

Comments on this action shall be submitted in writing to John Svec of the Tallahassee Office, within 30 days of this notice.

To appear in: Florida Times Union,
Jacksonville
on 9/18/81

DEPARTMENT OF HEALTH, WELFARE
& BIO-ENVIRONMENTAL SERVICES
Bio-Environmental Services Division
Air and Water Pollution Control



August 5, 1981

Mr. D. M. DeHart
Senior Environmental Engineer
Anheuser-Busch Companies, Inc.
721 Pestalozzi Street
St. Louis, MO 63118

RE: Jacksonville Brewery Boiler No.
1-4

Dear Mr. DeHart:

I have received your July 21, 1981 letter documenting the maximum permitted firing rates for the four boilers at the Jacksonville Brewery. A reevaluation of the data shows that the figures discussed with you by telephone were incorrect due to a math error made on my part. The correct boiler firing rates are as follows:

<u>Boiler Number</u>	<u>Maximum permitted firing rate</u> <u>10⁶ BTU/hr</u>
1	95
2	86
3	91
4	90

If the Jacksonville Brewery wants to increase the firing rate of these boilers beyond the above rates, particulate testing must be performed at 90% or better, of the desired maximum firing rate.

Very truly yours,

E. P. Balducci
Assistant Air Engineer

EPB/sg

cc: Mr. Carl Bock, BAQM w/enclosure
Doug Dutton, DER



Carl

DEPARTMENT OF HEALTH, WELFARE
& BIO-ENVIRONMENTAL SERVICES
Bio-Environmental Services Division
Air and Water Pollution Control



June 30, 1981

Mr. D. M. DeHart
Senior Environmental Engineer
Anheuser-Busch Company, Inc.
721 Pestalozzi Street
St. Louis, MO 63118

RE: Jacksonville Brewery:
Boiler #1 (A016-2435)
Boiler #2 (A016-2436)
Boiler #3 (A016-2437)
Boiler #4 (A016-12829)

Dear Mr. DeHart:

By copy of this letter, I am recommending to the Florida Department of Environmental Regulation, that the captioned permits be modified to show a stack height of 100 feet and a discharge diameter of 3.5 feet, each, as per your May 28, 1981 letter of request. According to the revised permit application, the construction is due to begin July 6, 1981. Please notify this office of the expected completion date.

Please be advised that compliance testing must be performed at 90% of the desired permit rate as per Chapter 17-2.23 (1) (b) 2, FAC (copy enclosed). According to the April 21-23, 1981 particulate test results received, the maximum firing rate at which these boilers could be permitted is a rate 10% higher than that tested, specifically:

<u>Boiler Number</u>	<u>Maximum Permitted Firing Rate (MBTU/hr)</u>
1	94
2	86
3	91
4	83

These rates are not in accordance with the rates previously submitted in the permit applications. Please advise if these rates are acceptable. If these maximum levels are unacceptable, please advise as to when subsequent testing will be performed to show compliance at the desired permit rate.

/Continued



Mr. D. H. DeHart
Anheuser-Busch Company, Inc.
June 30, 1981
Page Two

Please call me at (904) 633-3033 if you have questions regarding this matter.

Very truly yours,

E. P. Balducci

E. P. Balducci
Assistant Air Engineer

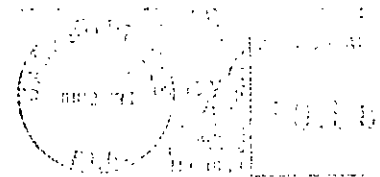
EPB/sg

cc: Mr. G. Doug Dutton, DER
Mr. Carl Bock, DER/BAQM. Tallahassee

BIO-ENVIRONMENTAL SERVICES
Air and Water Pollution Control
515 W. 6th Street
Jacksonville, Florida 32206



Mr. Carl Bock
Bureau of Air Quality Management
Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301



$\sim 150,000 \text{ Btu/gal}$

$$66.1 \times 10^6 \text{ Btu/hr}$$

x

4

x

$$\underline{8760}$$

$$2.316144 \times 10^{12} \text{ Btu/yr.}$$

$$\div \underline{150,000} \text{ Btu/gal}$$

$$15.441 \times 10^6 \text{ gal./yr.}$$

Do Not Throw
Away! Thanks
Bruce
7/20/82

To Bruce Mitchell

Date 7-15 Time 11:20

WHILE YOU WERE OUT

M Don Dehart

of Anheuser-Busch

Phone _____

Area Code _____ Number _____ Extension _____

TELEPHONED	<input checked="" type="checkbox"/> PLEASE CALL	
CALLED TO SEE YOU	WILL CALL AGAIN	<input checked="" type="checkbox"/>
WANTS TO SEE YOU	URGENT	
RETURNED YOUR CALL		

Message He'll call you
around 2:00 pm

_____ BM _____

Operator

Send Don Dehart

Clot. 17-2 ✓

Memo on conversation

to

- D. Dehart
- J. Woosley?
- S. Pace
- Marty Hall

This mainly 5/27/82

Aug 5, 1981
Emissions 10% Test sp.
Tested @ 80 mph

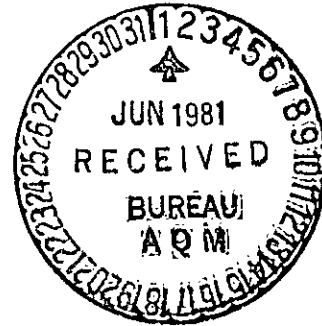
1979 Fuel usage for
Actual 21.5 TPY/Boiler
Actual Not as high as allowable



ANHEUSER-BUSCH COMPANIES

May 28, 1981

Mr. Carl Bock
Bureau of Air Quality Management
Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301



Dear Mr. Bock:

Per our phone conversation of May 21st, I am enclosing revisions to pp. 2, 3 and 4 of the construction permit application submitted in February, 1981 for the boilers at the Jacksonville brewery. These revisions 1) delete the references to increasing the stack height (p.2) per your instructions of last week, 2) modify the actual emissions (p.3) to reflect the results of the April particulate tests (recently submitted by Mr. T. Martin at the Jacksonville brewery), 3) modify the potential emissions (p.3) by changing the method of calculation, and 4) show a reduction of the stack diameter at the outlet (p.4) to show the stacks as they will be constructed.

In a separate letter to Mr. E. P. Balducci, Jacksonville Bio-Environmental Services Division, I requested a modification of the present boiler permits to show the increase in the stack height. This was also in response to our May 21st phone conversation.

If there are any more questions or issues to be resolved, please contact me at my St. Louis office.

Yours truly,

D. M. DeHart
Senior Environmental
Engineer

cc: Mr. E. P. Balducci
Jacksonville Bio-Environmental
Services Division (w/encl.)

encl.

DMD:de



ANHEUSER-BUSCH COMPANIES

May 28, 1981

Mr. E. P. Balducci
Assistant Air Pollution Engineer
Bio-Environmental Services Division
Air and Water Pollution Control
515 West 6th Street
Jacksonville, FL 32206

RE: Permits A016-2435, Boiler No. 1
A016-2436, Boiler No. 2
A016-2437, Boiler No. 3
A016-12829, Boiler No. 4

Dear Mr. Balducci:

Last week I spoke to Mr. Carl Bock of the Florida Department of Environmental Regulation (FDER) concerning the permit needs for increasing the stack heights on the boilers at the Jacksonville brewery. Hopefully by now, Mr. Bock has contacted you about this situation. Basically, the FDER now says that a construction permit is not needed to increase the stack height.

Per Mr. Bock's instructions, I am requesting that the existing boiler permits be modified to show a stack height of 100 ft. for each boiler. Also, at the discharge end, each of the four stacks is to be reduced to a 3.5 ft. diameter.

I anticipate that this request will allow us to proceed with the boiler stack height increase without any further problems. I understand that construction on this modification is scheduled to start the week of July 6, 1981.

If you have any questions or concerns about this modification, please do not hesitate to contact me at my St. Louis office or Mr. Tom Martin at the Jacksonville brewery.

Yours truly,

D. M. DeHart
Sr. Environmental
Engineer

DMD:de

cc: Mr. Carl Bock, FDER

5/29/81
5:16 PM

SECTION II: GENERAL PROJECT INFORMATION Rev. 2, 5/28/81

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary. The applicant desires to increase the allowable maximum firing rate to 100×10^6 BTU/hr per boiler. This is the input capacity for each boiler as indicated on all previous permit applications. Each boiler is currently permitted to operate at a maximum of 66.1×10^6 BTU/hr. The four (4) boilers are Babcock & Wilcox Co., Model FM 1035-79 (National Board No. 22857, 22856, 22855 and 23814). Modeling predicts that 100 ft. stacks will allow the operation of all 4 boilers at 100×10^6 BTU/hr input each (capacity) without violating the Florida SO₂ ambient air quality standard.

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction _____ Completion of Construction _____

C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

A016-2435, -2436, and -2437 expired 6/30/80. Renewal requested subject to SO₂ modeling evaluation. Renewals to be withdrawn at the time of this application.

A016-12824 expires 8/31/83.

E. Is this application associated with or part of a Development of Regional Impact (DRI) pursuant to Chapter 380, Florida Statutes, and Chapter 22F-2, Florida Administrative Code? Yes No

F. Normal equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ; if power plant, hrs/yr _____ ; if seasonal, describe: _____

G. If this is a new source or major modification, answer the following questions. (Yes or No)

- | | |
|---|-----------|
| 1. Is this source in a non-attainment area for a particular pollutant? | <u>no</u> |
| a. If yes, has "offset" been applied? | _____ |
| b. If yes, has "Lowest Achievable Emission Rate" been applied? | _____ |
| c. If yes, list non-attainment pollutants. | _____ |
| 2. Does best available control technology (BACT) apply to this source? If yes, see Section VI. | <u>no</u> |
| 3. Does the State "Prevention of Significant Deterioration" (PSD) requirements apply to this source? If yes, see Sections VI and VII. | <u>?</u> |
| 4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source? | <u>no</u> |
| 5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? | <u>no</u> |

Attach all supportive information related to any answer of "Yes". Attach any justification for any answer of "No" that might be considered questionable.

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

A. Raw Materials and Chemicals Used in your Process, if applicable:

Rev. 1, 5/28/81

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		

B. Process Rate, if applicable: (See Section V, Item 1)

1. Total Process Input Rate (lbs/hr): for each of four boilers - 90,000 lb/hr max (water-steam)
2. Product Weight (lbs/hr): - 90,000 lb/hr max (steam)

C. Airborne Contaminants Emitted: See attached Emission Calculations
EACH boiler at 100 x 10⁶ BTU/hr input

Name of Contaminant	Emission ¹		Allowed Emission ² Rate per Ch. 17-2, F.A.C.	Allowable ³ Emission lbs/hr	Potential Emission ⁴		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/hr	T/yr	
Particulate	10.0*	21.2	Use 17-2.05(6) Table II	10	10.0	43.8	1,2,3,4
Sulfur Dioxide	250**	530	Source "E"(1)(b) 1.a.** (per Mr. E. Balducci)	250	250	1095	
Nitrogen Oxide	40.0	85	None specified	--	40.0	175	

D. Control Devices: (See Section V, Item 4)

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles ⁵ Size Collected (in microns)	Basis for Efficiency (Sec. V, It ⁵)

¹See Section V, Item 2.

²Reference applicable emission standards and units (e.g., Section 17-2.05(6) Table II, E. (1), F.A.C. - 0.1 pounds per million BTU heat input)

³Calculated from operating rate and applicable standard

⁴Emission, if source operated without control (See Section V, Item 3)

⁵If Applicable

* Maximum allowable. Also see emission tests of April, 1981.

** 0.1 lb particulate per 10⁶ BTU heat input.

2.5 lb SO₂ per 10⁶ BTU heat input

E. Fuels

Rev. 1, 5/28/81

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
No. 6 fuel oil	8 bbl	16 bbl	100 per boiler

*Units Natural Gas, MMCF/hr; Fuel Oils, barrels/hr; Coal, lbs/hr

Fuel Analysis: $SO_2/10^6$ BTU)
 Percent Sulfur: 2.28 (nominal based on 2.5 lb) Percent Ash: 0.1 max.
 Density: 8.2 (nominal) lbs/gal Typical Percent Nitrogen: _____
 Heat Capacity: _____ BTU/lb 150,000 (nominal) BTU/gal
 Other Fuel Contaminants (which may cause air pollution): _____

F. If applicable, indicate the percent of fuel used for space heating. Annual Average _____ Maximum _____

G. Indicate liquid or solid wastes generated and method of disposal.
About 10 GPM of boiler blowdown is routed in the sanitary sewer system to the District No. 2 City Sewage Treatment Plant.

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack): (same data for each of four stacks)
 Stack Height: 100 ft. Stack Diameter: 4.5 (3.5 at outlet) ft.
 Gas Flow Rate: 33,100 (est.) ACFM Gas Exit Temperature: 410 °F.
 Water Vapor Content: 6.2 % Velocity: 35 FPS

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type O (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq & Gas By-prod.)	Type VI (Solid By-prod.)
Lbs/hr Incinerated							

Description of Waste _____
 Total Weight Incinerated (lbs/hr) _____ Design Capacity (lbs/hr) _____
 Approximate Number of Hours of Operation per day _____ days/week _____
 Manufacturer _____
 Date Constructed _____ Model No. _____

D. Maximum Emissions

	(Florida allowable)	x	(capacity input)	= Max. Emissions
	(1b/10 ⁶ BTU input)	x	(100 x 10 ⁶ BTU/hr input)	
Particulates	0.1	x	100	= 10.0 lb/hr
SO ₂	2.5	x	100	= 250 lb/hr

NOTE: Particulate test results performed in April, 1981, confirm that the boilers meet this standard.

E. Actual Annual Emissions

Basis: 2,828,000 gallons of No. 6 fuel oil used in boiler No. 1 in 1979.
At 150,000 BTU/gal, this is equivalent to 424.2 x 10⁹ BTU input.

	(Florida allowable)	x	(annual input)	x	$\left(\frac{1 \text{ ton}}{2000 \text{ ton}}\right)$	= Actual Emissions
	(1b/10 ⁶ BTU input)		(424.2 x 10 ⁹ BTU)	/	2000	
Particulate	0.1	x	(424,200/2000)			= 21.2 tons/yr
SO ₂	2.5	x	212.1			= 530 tons/yr

F. Potential Emissions

- Hourly Potential Emissions equal hourly Maximum Emissions (Par. D) as there are no additional emission control devices on the boilers.
- Annual Potential Emissions assume continuous operation or 8760 hr/yr.

	$\left(\frac{\text{Hourly Potential Emissions}}{\text{(lb/hr)}}\right)$	x	$\left(\frac{\text{Operating Time}}{\left(\frac{8760 \text{ hr}}{\text{yr}}\right)}\right)$	x	$\left(\frac{1 \text{ ton}}{2000 \text{ lb}}\right)$	= Annual Potential Emissions
			/	2000		
Particulate	10.0	x	(8760/2000)			= 43.8 tons/yr
SO ₂	250	x	(4.38)			= 1095 tons/yr

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

No. 33567

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Anheuser-Busch, Inc. Date April 14, 1981

Address P.O. Box 15071 AMF Jacksonville FL Dollars \$ 2.00

Applicant Name & Address Ill. Busch Dave Jacksonville 32229 FL

Source of Revenue _____

Revenue Code 901 Application Number AG-16-3995-1

By Tune Powell

DER PERMIT APPLICATION TRACKING SYSTEM MASTER RECORD

FILE#0000000039954 COE# DER PROCESSOR:CARL BOCK DER OFFICE:TLH
FILE NAME:ANHEUSER-BUSCH, INC. DATE FIRST REC: 02/17/81 APPLICATION TYPE:AC
APPL NAME:JOHN MUELLER APPL PHONE:(904)751-0700 PROJECT COUNTY:16
ADDR:P. O. BOX 18017 CITY:JACKSONVILLE ST:FLZIP:32229
AGNT NAME:NOLAN, PAT, P.E. AGNT PHONE:(904)731-4288
ADDR:8282 WESTERN WAY CIRCLE, SUITE 111 CITY:JACKSONVILLE ST:FLZIP:32216

ADDITIONAL INFO REQ:03/16/81 / / / / REC:04/09/81 / / / /
APPL COMPLETE DATE: 04/09/81 COMMENTS:NEC:Y DATE REQ: / / DATE REC: / /
LETTER OF INTENT NEC:Y DATE WHEN INTENT ISSUED: / / WAIVER DATE: / /

HEARING REQUEST DATES: / / / / / /
HEARING WITHDRAWN/DENIED/ORDER -- DATES: / / / / / /
HEARING ORDER OR FINAL ACTION DUE DATE: / / MANUAL TRACKING DESIRED:N

*** RECORD HAS BEEN SUCCESSFULLY UPDATED *** 04/14/81 15:31:43
FEE PD DATE#1:04/09/81 \$0020 RECEIPT#00033567 REFUND DATE: / / REFUND \$
FEE PD DATE#2: / / \$ RECEIPT# REFUND DATE: / / REFUND \$
APPL:ACTIVE/INACTIVE/DENIED/WITHDRAWN/TRANSFERRED/EXEMPT/ISSUED:AC DATE:02/17/81
REMARKS: PROCESS STEAM BOILERS NOS. 1, 2, 3 AND 4. INCREASE IN CAPACITY W/ HIGH-
ER STACKS. SOURCE LOCATION: 111 BUSCH DRIVE, JACKSONVILLE; UTM: 743.7930E/
3366.820N. LAT/LONG: 30DEG25'59"N/ 81DEG38'47"W.

SECTION II: GENERAL PROJECT INFORMATION

- A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.
This construction will extend the height of each boiler stack from 52.5 ft to 100 ft. The four identical boilers are Babcock and Wilcox Co., Model FM 1035-79 (National Board No. 22857, 22856, 22855 and 23814). Computer modeling predicts that the higher stacks will allow the operation of all four boilers at 100×10^6 BTU/hr input each (capacity) without violating the Florida SO₂ ambient air quality standard
- B. Schedule of project covered in this application (Construction Permit Application Only)
 Start of Construction July 1, 1981 Completion of Construction Aug. 31, 1981
- C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

- D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.
A016-2435, -2436, and -2437 expired 6/30/80. Renewal requested subject to SO₂ modeling evaluation. Renewals to be withdrawn at the time of this application. A016-12824 expires 8/31/83.

- E. Is this application associated with or part of a Development of Regional Impact (DRI) pursuant to Chapter 380, Florida Statutes, and Chapter 22F-2, Florida Administrative Code? Yes No

- F. Normal equipment operating time: hrs/day 24; days/wk 7; wks/yr 52; if power plant, hrs/yr _____; if seasonal, describe: _____

- G. If this is a new source or major modification, answer the following questions. (Yes or No)

1. Is this source in a non-attainment area for a particular pollutant?
 - a. If yes, has "offset" been applied?
 - b. If yes, has "Lowest Achievable Emission Rate" been applied?
 - c. If yes, list non-attainment pollutants.
2. Does best available control technology (BACT) apply to this source? If yes, see Section VI.
3. Does the State "Prevention of Significant Deterioration" (PSD) requirements apply to this source? If yes, see Sections VI and VII.
4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source?
5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source?

Attach all supportive information related to any answer of "Yes". Attach any justification for any answer of "No" that might be considered questionable.

