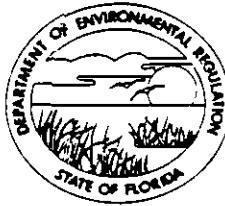


TWIN TOWERS OFFICE BUILDING  
2500 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32301



FILE  
CY

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

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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

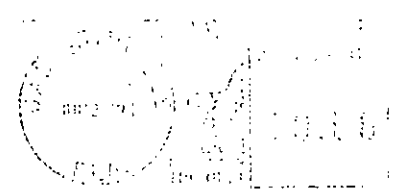
EPB/sg

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

8760

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

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

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

Do Not Throw  
Away! James  
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

C/p t. 17-2 ✓

Memo on conversation

to

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

This morning 5/27/82

Aug 5, 1981  
 Emissions 1070 Test sp. 1  
 Tested 280 on 104

1979 Fuel usage for  
 Actual 21.2 TBY/Boiler  
 Actual No. 1  
 Not as high as  
 allowable

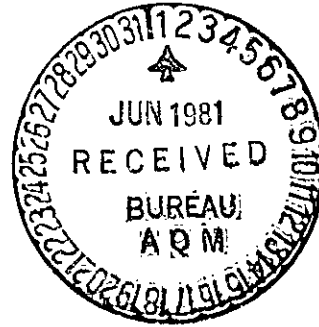




ANHEUSER-BUSCH COMPANIES

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

ST. LOUIS, MISSOURI

**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  $100 \times 10^6$  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  $66.1 \times 10^6$  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  $100 \times 10^6$  BTU/hr input each (capacity) without violating the Florida SO<sub>2</sub> 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 SO<sub>2</sub> 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 10<sup>6</sup> BTU/hr input

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission <sup>2</sup> Rate per Ch. 17-2, F.A.C.	Allowable <sup>3</sup> Emission lbs/hr	Potential Emission <sup>4</sup>		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) T.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 <sup>5</sup> Size Collected (in microns)	Basis for Efficiency (Sec. V, It <sup>5</sup> )

<sup>1</sup>See Section V, Item 2.

<sup>2</sup>Reference 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)

<sup>3</sup>Calculated from operating rate and applicable standard

<sup>4</sup>Emission, if source operated without control (See Section V, Item 3)

<sup>5</sup>If Applicable

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

\*\* 0.1 lb particulate per 10<sup>6</sup> BTU heat input.

2.5 lb SO<sub>2</sub> per 10<sup>6</sup> BTU heat input

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 <sup>6</sup> BTU input)	x	(100 x 10 <sup>6</sup> BTU/hr input)	
Particulates	0.1	x	100	= 10.0 lb/hr
SO <sub>2</sub>	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 10<sup>9</sup> BTU input.

	(Florida allowable)	x	(annual input)	x	$\left(\frac{1 \text{ ton}}{2000 \text{ ton}}\right)$	= Actual Emissions
	(1b/10 <sup>6</sup> BTU input)		(424.2 x 10 <sup>9</sup> BTU)	/	2000	
Particulate	0.1	x	(424,200/2000)			= 21.2 tons/yr
SO <sub>2</sub>	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 <sub>2</sub>	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 1807 AMF Jacksonville FL Dollars \$ 20<sup>00</sup>

Applicant Name & Address Ill. Busch, Dave Jacksonville FL 32229

Source of Revenue \_\_\_\_\_

Revenue Code 001 Application Number AC-16-3995-1

By Tom 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:ROLAN, PAT, P.E. AGNT PHONE:(904)731-4288  
 ADDR:8262 WESTERN WAY CIRCLE, SUITE 111 CITY:JACKSONVILLE ST:FLZIP:32216

ADDITIONAL INFO REC:03/16/81 / / / / REC:04/09/81 / / / /  
 APPL COMPLETE DATE: 04/09/81 COMMENTS:NEC:Y DATE REC: / / 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: / / ANNUAL 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/ 810EG38'47"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  $100 \times 10^6$  BTU/hr input each

B. Schedule of project covered in this application (Construction Permit Application Only) Florida SO<sub>2</sub> ambient air quality standard  
 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.)  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

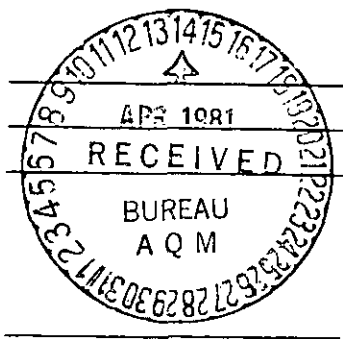
D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.  
A016-2435, -2436, and -2437 expired 6/30/80. Renewal requested subject to SO<sub>2</sub> modeling evaluation. Renewals to be withdrawn at the time of this application. 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.

