

DEP ROUTING AND TRANSMITTAL SLIP

TO: (NAME, OFFICE, LOCATION)

1. Jonathan Tolton, MS 5500
3. ~~DEM~~
5. _____

PLEASE PREPARE REPLY FOR:

- SECRETARY'S SIGNATURE
- DIV/DIST DIR SIGNATURE
- MY SIGNATURE
- YOUR SIGNATURE
- DUE DATE _____

ACTION/DISPOSITION

- DISCUSS WITH ME
- COMMENTS/ADVISE
- REVIEW AND RETURN
- SET UP MEETING
- FOR YOUR INFORMATION
- HANDLE APPROPRIATELY
- INITIAL AND FORWARD
- SHARE WITH STAFF
- FOR YOUR FILES

COMMENTS:

Jonathan -
I haven't reviewed this request for CAM Plan

- R -

Rec'd 7/29/03
NO controls → NO CAM

FROM: Rita Smith DATE: 7/21/03 PHONE: SC 807 3231



GRIFFIN INDUSTRIES, INC.

RECEIVED

July 3, 2003

Via Certified Mail 7000 0520 0012 5247 2315

Mr. Chris Kirts, Air Administrator
Department of Environmental Protection
Northeast District
7825 Bay Meadows Way
Jacksonville, Fl. 32256-

JUL 07 2003

STATE OF FLORIDA
DEPT. OF ENV. PROTECTION
NORTHEAST DISTRICT-JAX

RE: Griffin Industries, Inc. Hampton, FL.
Permit/Certification No. 0070004-003-AC
Request for Alternate Boiler Fuel

*no \$ J
(Title V)*

Dear Mr. Kirts,

Please find attached a complete application for the above named facility. This application is being submitted to comply with the requirements found in standard condition number 5 which is found in Appendix TV-4 of our permit.

No physical or operational changes are being requested for this facility. We are however requesting a change in the method used calculate the VOC emissions generated by the bakery recycling portion of our facility. We have recently become aware of a method used by commercial bakeries to calculate VOC emissions from their ovens. Research into this subject convinced us that we needed to recalculate the VOC emissions from our recycling of scrap bakery products. To assure that VOC emission calculations are as accurate as possible, Griffin proposes to calculate actual VOC emissions from our bakery operation (EU-10) monthly using the AIB formula and to total these on a rolling twelve (12) month basis. This formula is explained in more detail in the emissions calculation provided as part of this application, and the calculations for the actual 2002 annual VOC emissions are provided in the form of a spreadsheet printout. Again, this change is requested only to increase the accuracy of our VOC calculations, there has been no change in the design or operation of the facility.

If you should have any questions concerning the information in this application please call me at your convenience at telephone number 859-572-2525.

Sincerely,

F. Michael Schmidt, C.H.M.M.
Environmental Manager

4221 ALEXANDRIA PIKE • COLD SPRING, KY 41076-1897

MAXIMUM POTENTIAL EMISSIONS CALCULATIONS

Griffin Industries, Inc. (Griffin) is currently allowed to burn Number 6 fuel oil, on-spec used oil and Waste Cooking Oil (WCO) in our three boilers. These same boilers are limited to 3,432 hours of operation each year. The number 1 and 2 boilers may burn fuel oil with a 2.5% sulfur content but the number 3 boiler is BACT limited to 1.5% sulfur content fuel oil.

The calculations presented below detail the emissions, in pounds per hour, of each pollutant for each fuel we are permitted to burn. We have compared the hourly emission rate for all three fuels and have used the highest of the three to calculate the maximum annual emissions. In addition, we have calculated the annual emissions from the Close Coupled Gasification Unit (biomass burner) and the rotary dryer by multiplying the hourly emissions rate for each pollutant (derived from actual stack test data) by 8,760 hours of operation per year. These will then be summed to determine the actual annual emissions rate for each pollutant other than VOCs.

As stated in the cover letter, Griffin recently became aware of a method co-developed by the US EPA and the American Institute of Baking (AIB) which is now used by commercial bakeries to calculate VOC emissions from their ovens. The US EPA and the baking industry agree that this method most accurately reflects the actual levels of VOCs emitted from the baking process. Research into this has led us to believe that a slightly modified version of this formula should be used to calculate the VOC emissions from our recycling of scrap bakery products.

EMISSIONS CALCULATIONS

1. Carbon Monoxide

lbs/hr	=	Btu/hr heat input ÷ Btu/gal of fuel used ÷ 1,000	x	emission factor	
No 6 oil	=	33,479,000 ÷ 157,800 Btu/gal ÷ 1000	x	5.0	= 1.061 lbs/hr
Used oil	=	33,479,000 ÷ 129,360 Btu/gal ÷ 1000	x	2.1	= 0.543 lbs/hr
WCO	=	33,479,000 ÷ 123,370 Btu/gal ÷ 1000	x	3.3	= 0.896 lbs/hr
Dryer	=	13.16 lbs/hr (test data)			

Max tons/year = Highest emission factor x hours/year x # boilers ÷ 2,000 lbs/ton

Boilers	=	1.061 lbs/hr x 3,432 hrs/yr x 3 ÷ 2,000	=	5.462 tons/yr
Dryer	=	13.16 lbs/hr x 8,760 hrs/yr ÷ 2,000	=	57.641 tons/yr

2. Nitrogen Oxides

lbs/hr	=	Btu/hr heat input ÷ Btu/gal of fuel used ÷ 1,000	x	emission factor	
No 6 oil	=	33,479,000 ÷ 157,800 Btu/gal ÷ 1000	x	55.0	= 5.305 lbs/hr
Used oil	=	33,479,000 ÷ 129,360 Btu/gal ÷ 1000	x	16.0	= 4.137 lbs/hr
WCO	=	33,479,000 ÷ 123,370 Btu/gal ÷ 1000	x	23.3	= 6.326 lbs/hr
Dryer	=	13.47 lbs/hr (test data)			

Max tons/year = Highest emission factor x hours/year x # boilers ÷ 2,000 lbs/ton

Boilers	=	6.326 lbs/hr x 3,432 hrs/yr x 3 ÷ 2,000	=	32.566 tons/yr
Dryer	=	13.47 lbs/hr x 8,760 hrs/yr ÷ 2,000	=	58.999 tons/yr

3. Particulates

a. From Fuel Combustion

$$\begin{aligned} \text{lbs/hr} &= \text{Btu/hr heat input} \div \text{Btu/gal of fuel used} \div 1,000 \times \text{emission factor} \\ \text{No 6 oil} &= 33,479,000 \div 157,800 \text{ Btu/gal} \div 1000 \times 10.0 = 2.122 \text{ lbs/hr} \\ \text{Used oil} &= 33,479,000 \div 129,360 \text{ Btu/gal} \div 1000 \times 27.1 = 7.003 \text{ lbs/hr} \\ \text{WCO} &= 33,479,000 \div 123,370 \text{ Btu/gal} \div 1000 \times 1.38 = 0.374 \text{ lbs/hr} \\ \text{Dryer} &= 10.30 \text{ lbs/hr (test data)} \end{aligned}$$

$$\begin{aligned} \text{Max tons/year} &= \text{Highest emission factor} \times \text{hours/year} \times \text{\# boilers} \div 2,000 \text{ lbs/ton} \\ \text{Boilers} &= 7.003 \text{ lbs/hr} \times 3,432 \text{ hrs/yr} \times 3 \div 2,000 = 36.051 \text{ tons/yr} \\ \text{Dryer} &= 10.30 \text{ lbs/hr} \times 8,760 \text{ hrs/yr} \div 2,000 = 45.114 \text{ tons/yr} \end{aligned}$$

4. Sulfur Dioxide

$$\begin{aligned} \text{lbs/hr} &= \text{Btu/hr heat input} \div \text{Btu/gal of fuel used} \div 1,000 \times \text{emission factor} \\ \text{No 6 oil} &= 33,479,000 \div 157,800 \text{ Btu/gal} \div 1000 \times 157(\%S) = 83.27 \text{ lbs/hr} \\ \text{Used oil} &= 33,479,000 \div 129,360 \text{ Btu/gal} \div 1000 \times 107(\%S) = 1.385 \text{ lbs/hr} \\ \text{WCO} &= 33,479,000 \div 123,370 \text{ Btu/gal} \div 1000 \times 0.061 = 0.016 \text{ lbs/hr} \\ \text{Dryer} &= 0.783 \text{ lbs/hr (test data)} \end{aligned}$$

$$\begin{aligned} \text{Max tons/year} &= \text{Highest emission factor} \times \text{hours/year} \times \text{\# boilers} \div 2,000 \text{ lbs/ton} \\ \text{Boilers 1 \& 2} &= 83.27 \text{ lbs/hr} \times 3,432 \text{ hrs/yr} \times 2 \div 2,000 = 285.783 \text{ tons/yr} \\ \text{Boiler \# 3} &= 49.96 \text{ lbs/hr} \times 3,432 \text{ hrs/yr} \times 1 \div 2,000 = 85.731 \text{ tons/yr} \\ \text{Dryer} &= 0.783 \text{ lbs/hr} \times 8,760 \text{ hrs/yr} \div 2,000 = 3.430 \text{ tons/yr} \end{aligned}$$

5. VOCs

a. From Fuel Combustion

$$\begin{aligned} \text{lbs/hr} &= \text{Btu/hr heat input} \div \text{Btu/gal of fuel used} \div 1,000 \times \text{emission factor} \\ \text{No 6 oil} &= 33,479,000 \div 157,800 \text{ Btu/gal} \div 1000 \times 0.280 = 0.059 \text{ lbs/hr} \\ \text{Used oil} &= 33,479,000 \div 129,360 \text{ Btu/gal} \div 1000 \times 0.280 = 0.072 \text{ lbs/hr} \\ \text{WCO} &= 33,479,000 \div 123,370 \text{ Btu/gal} \div 1000 \times 0.000 = 0.000 \text{ lbs/hr} \\ \text{Dryer} &= \text{monthly/annual emission rate} \div \text{hours of operation} \end{aligned}$$

$$\begin{aligned} \text{Max tons/year} &= \text{Highest emission factor} \times \text{hours/year} \times \text{\# boilers} \div 2,000 \text{ lbs/ton} \\ \text{Boilers} &= 0.072 \text{ lbs/hr} \times 3,432 \text{ hrs/yr} \times 3 \div 2,000 = 0.371 \text{ tons/yr} \\ \text{Dryer} &= \text{An annual emission rate cannot be predicted using the AIB formula.} \end{aligned}$$

b. From dryer (See attached calculations for 2002)

$$\text{VOC E.F.} = 0.95Y_1 + 0.195t_1 + 1.90$$

VOC E.F. = Emission factor in pounds of VOC per ton of yeast containing dough processed

Y_1 = Initial baker's percent of yeast to the nearest tenth of a percent

t_1 = Total yeast action time in hours to the nearest hour
(Customer proof time + Bakery Feeds proof time)

$$\text{VOC Emissions (tons/yr)} = \text{VOC E.F.} \times \text{BP} \times 0.0005$$

BP = Yeast containing dough processed in tons/year

6. Lead

lbs/hour = Btu/hr heat input ÷ Btu/gal of fuel used ÷ 1,000 x emission factor

No 6 oil = $33,479,000 \div 157,800 \text{ Btu/gal} \div 1000 \times 0.0042 = 0.00089 \text{ lbs/hr}$

Used oil = $33,479,000 \div 129,360 \text{ Btu/gal} \div 1000 \times 50(\% \text{Pb}) = 0.00097 \text{ lbs/hr}$

WCO = $33,479,000 \div 123,370 \text{ Btu/gal} \div 1000 \times 0.000 = 0.000 \text{ lbs/hr}$

Dryer = 0.00 lbs/hr

Max tons/year = Highest emission factor x hours/year x # boilers ÷ 2,000 lbs/ton

Boilers = $0.00097 \text{ lbs/hr} \times 3,432 \text{ hrs/yr} \times 3 \div 2,000 = 0.005 \text{ tons/yr}$

Dryer = $0.00 \text{ lbs/hr} \times 8,760 \text{ hrs/yr} \div 2,000 = 0.000 \text{ tons/yr}$

Hampton, Florida Calendar Year 2002

Bakery Recycling Plant Emissions Calculations

VOC Emissions = (VOC E.F.) x (DT) x (.0005)

1. VOC E.F. = Emission Factor in in Lbs VOC Emissions/Ton of Dough with Yeast
2. DT = Dough with Yeast Tons/Year
3. .0005 = Converts pounds to tons

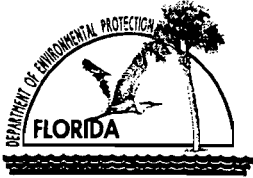
VOC E.F. = 0.95Y + 0.195T + 1.9

1. VOC E.F. = Emission Factor in in Lbs VOC Emissions/Ton of Dough with Yeast
2. Y = Bakers % of yeast
3. T = Total Proof Time in Hours (Customer + Bakery Feeds)

Bakery Feeds Proof Time = (Days in year x 24 hrs/day) / loads per customer

Customer ID #	Plant Records		Product Containing Yeast	Tons Product Containing Yeast	% Dough	Tons of Dough w/Yeast	% Yeast	Proof Time		VOC E.F.	VOC Tons	
	Actual Tonnage	# Loads						Customer	Bakery Feeds			Total Proof Time
xxxx1	2,460.66	150	5%	123	5%	6	3	2	41.60	43.60	13.3	0.04
xxxx2	3,614.86	219	75%	2,711	10%	271	4	2	28.49	30.49	11.6	1.58
xxxx3	3,004.90	166	75%	2,254	10%	225	4	2	37.59	39.59	13.4	1.51
xxxx4	1,516.64	77	75%	1,137	10%	114	4	2	81.04	83.04	21.9	1.25
xxxx5	1,526.43	87	0%	0	0%	0	0	2	71.72	73.72	16.3	0.00
xxxx6	328.44	27	0%	0	0%	0	0	2	231.11	233.11	47.4	0.00
xxxx7	2,548.13	146	0%	0	0%	0	0	2	42.74	44.74	10.6	0.00
xxxx8	1,299.01	69	75%	974	10%	97	4	2	90.43	92.43	23.7	1.16
xxxx9												
xxxx10												
Total	16,299	941		7,200		714			Total tons of VOCs =		5.53	

Pounds / hour = 6.94



Department of Environmental Protection

Division of Air Resources Management

APPLICATION FOR AIR PERMIT - TITLE V SOURCE

See Instructions for Form No. 62-210.900(1)

RECEIVED

I. APPLICATION INFORMATION

JUL 07 2003

Identification of Facility

STATE OF FLORIDA DEPT. OF ENV. PROTECTION NORTHEAST DISTRICT	
1. Facility Owner/Company Name:	Griffin Industries, Inc.
2. Site Name:	Griffin Industries, Inc.
3. Facility Identification Number:	0070004 [] Unknown
4. Facility Location: Street Address or Other Locator:	Route 3 Box 530-P, Highway 221
5. Relocatable Facility? [] Yes [X] No	6. Existing Permitted Facility? [X] Yes [] No

Application Contact

1. Name and Title of Application Contact:	F. Michael Schmidt, Environmental Manager		
2. Application Contact Mailing Address:	Organization/Firm:	Griffin Industries, Inc.	
	Street Address:	4221 Alexandria Pike	
	City: Cold Spring	State: KY	Zip Code: 41076
3. Application Contact Telephone Numbers:	Telephone: (859) 572-2525	Fax: (859) 572-2572	

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	
2. Permit Number:	
3. PSD Number (if applicable):	
4. Siting Number (if applicable):	

Purpose of Application

This application for air permit is submitted to obtain: (Check one)

Air Construction Permit

Air construction permit.

Air Operation Permit

Initial Title V air operation permit.

Title V air operation permit revision.

Title V air operation permit renewal.

Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required.

Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required.

**Air Construction Permit and Revised/Renewal Title V Air Operation Permit
(Concurrent Processing)**

Air construction permit and Title V permit revision, incorporating the proposed project.

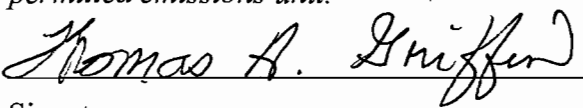
Air construction permit and Title V permit renewal, incorporating the proposed project.

Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box:

I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.

Application Comment

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official: Tom Griffin, Vice President
2. Owner/Authorized Representative or Responsible Official Mailing Address: Organization/Firm: Griffin Industries, Inc. Street Address: 4221 Alexandria Pike City: Cold Spring State: KY Zip Code: 41076-1897
3. Owner/Authorized Representative or Responsible Official Telephone Numbers: Telephone: (859) 781-2010 Fax: (859) 572-2572
4. Owner/Authorized Representative or Responsible Official Statement: <i>I, the undersigned, am the owner or responsible official of the Title V source addressed in this application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.</i>  Signature _____ Date <u>7/3/03</u>

Professional Engineer Certification

1. Professional Engineer Name: John Louis Crowley Registration Number: 0049879
2. Professional Engineer Mailing Address: Organization/Firm: Griffin Industries, Inc. Street Address: 4221 Alexandria Pike City: Cold Spring State: KY Zip Code: 41076-1897
3. Professional Engineer Telephone Numbers: Telephone: (859) 572-2516 Fax: (859) 572-2572-

4. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain a Title V source air operation permit (check here [X], if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [.], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.


Signature

7-3-03
Date

(seal)

* Attach any exception to certification statement.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
001	Inactive		NA
002	Inactive		NA
003	Inactive		NA
004	Inactive		NA
005	Inactive		NA
006	Boiler No. 1		NA
007	Boiler No. 2		NA
008	Boiler No. 3		NA
009	Inactive		NA
010	Bakery Waste Dryer		NA
011	Inactive		NA
012	Inactive		NA
013	Rotary Dryer (Delete. Unit was never installed)		NA

Application Processing Fee

Check one: Attached - Amount: \$ _____ Not Applicable

Construction/Modification Information

1. Description of Proposed Project or Alterations:

NA. This application is for renewal purposes only.

2. Projected or Actual Date of Commencement of Construction: NA

3. Projected Date of Completion of Construction: NA

Application Comment

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classification	3. Requested Emissions Cap		4. Basis for Emissions Cap	5. Pollutant Comment
		lb/hour	tons/year		
CO					
NOx					
PM					
PM-10					
SO2		NA	249	ESCPSD	SO ₂ will be controlled by limiting the fuels burned in the boilers.
VOC					
Lead					
HCl					

Additional Supplemental Requirements for Title V Air Operation Permit Applications

8. List of Proposed Insignificant Activities: <input type="checkbox"/> Attached, Document ID: <u>Appendix D</u> <input type="checkbox"/> Not Applicable
9. List of Equipment/Activities Regulated under Title VI: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Equipment/Activities On site but Not Required to be Individually Listed <input checked="" type="checkbox"/> Not Applicable
10. Alternative Methods of Operation: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
11. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Identification of Additional Applicable Requirements: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Risk Management Plan Verification: <input type="checkbox"/> Plan previously submitted to Chemical Emergency Preparedness and Prevention Office (CEPPO). Verification of submittal attached (Document ID: _____) or previously submitted to DEP (Date and DEP Office: _____) <input type="checkbox"/> Plan to be submitted to CEPPO (Date required: _____) <input checked="" type="checkbox"/> Not Applicable
14. Compliance Report and Plan: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Compliance Certification (Hard-copy Required): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

**A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)**

Emissions Unit Description and Status

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.</p>			
<p>2. Regulated or Unregulated Emissions Unit? (Check one)</p> <p><input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.</p> <p><input type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.</p>			
<p>3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):</p> <p>Boiler No. 1</p>			
<p>4. Emissions Unit Identification Number: 006</p> <p> <input type="checkbox"/> No ID</p> <p> <input type="checkbox"/> ID Unknown</p>			
<p>5. Emissions Unit Status Code:</p> <p> A</p>	<p>6. Initial Startup Date:</p> <p> June-2001</p>	<p>7. Emissions Unit Major Group SIC Code:</p> <p> 02</p>	<p>8. Acid Rain Unit?</p> <p> [No]</p>
<p>9. Emissions Unit Comment: (Limit to 500 Characters)</p> <p>This boiler is used to generate steam for process heat associated with rendering activities. In June of 2001 the existing 800 HP Cleaver Brooks boiler was replaced because of mechanical problems with another 800 HP Cleaver Brooks boiler. (See 4/23/01 letter from the Dept.)</p>			

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):

NA

2. Control Device or Method Code(s): NA

Emissions Unit Details

1. Package Unit:

Manufacturer: Cleaver Brooks

Model Number: CB 400-800

2. Generator Nameplate Rating: MW

3. Incinerator Information: NA

Dwell Temperature: °F

Dwell Time: seconds

Incinerator Afterburner Temperature: °F

**B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)**

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	33.5 mmBtu/hr	
2. Maximum Incineration Rate:	0.00 lb/hr	0.00 tons/day
3. Maximum Process or Throughput Rate:		
4. Maximum Production Rate:		
5. Requested Maximum Operating Schedule:		
	11 hours/day	6 days/week
	52 weeks/year	3,432 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):		

**D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? Stack B		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Emission Point Type 1.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA.			
5. Discharge Type Code: W	6. Stack Height: 31 feet	7. Exit Diameter: 2.0 feet	
8. Exit Temperature: 375 – 450 °F	9. Actual Volumetric Flow Rate: 10,900 acfm	10. Water Vapor: 10 %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 389.70 North (km): 3294.90			
14. Emission Point Comment (limit to 200 characters): This boiler has been permitted to burn No. 6 fuel oil, on-spec waste oil and Waste Cooking Oil (WCO).			

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 1 of 3

1. Segment Description (Process/Fuel Type) (limit to 500 characters): # 6 fuel oil used as fuel in the boilers.		
2. Source Classification Code (SCC): 2102005000	3. SCC Units: Thousand gallons burned	
4. Maximum Hourly Rate: 0.222	5. Maximum Annual Rate:	6. Est Annual Activity Factor:
7. Maximum % Sulfur: 2.5	8. Maximum % Ash:	9. Million Btu per SCC Unit: 157.80
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment 2 of 3

1. Segment Description (Process/Fuel Type) (limit to 500 characters): On-Specification used oil used as fuel in the boilers.		
2. Source Classification Code (SCC): 2102004000	3. SCC Units: Thousand gallons burned	
4. Maximum Hourly Rate: 0.259	5. Maximum Annual Rate:	6. Est Annual Activity Factor:
7. Maximum % Sulfur: 0.05	8. Maximum % Ash: 0.5	9. Million Btu per SCC Unit: 129.36
10. Segment Comment (limit to 200 characters):		

**E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)**

Segment Description and Rate: Segment 3 of 3

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Processed grease used as fuel in the boilers.		
2. Source Classification Code (SCC): 1-02-004-01	3. SCC Units: Thousand gallons burned	
4. Maximum Hourly Rate: 0.272	5. Maximum Annual Rate:	6. Est Annual Activity Factor:
7. Maximum % Sulfur: 0.05	8. Maximum % Ash:	9. Million Btu per SCC Unit: 123.37
10. Segment Comment (limit to 200 characters): Processed grease consists of animal and/or vegetable fats and greases that have been produced and/or recycled at our facility.		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

**F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)**

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
CO	NA	NA	NS
NOx	NA	NA	NS
PM	NA	NA	NS
PM-10	NA	NA	NS
SO2	NA	NA	EL
VOC	NA	NA	NS
Lead	NA	NA	NS

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: <p align="center">CO</p>		2. Total Percent Efficiency of Control: <p align="center">NA</p>	
3. Potential Emissions: 1.06 lb/hour		tons/year	4. Synthetically Limited? NO
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 _____ to _____ tons/year			
6. Emission Factor: Reference: 5.0 lbs / 1,000 gals No. 6 oil AP-42, Table 1.3-1		7. Emissions Method Code:	
8. Calculation of Emissions (limit to 600 characters): $\text{lbs/hour} = \text{Btu/hr heat input} \div \text{Btu/gal of fuel used} \div 1,000 \times 5.0 \text{ lbs/1000 gals}$ $\text{tons/year} = \text{Gallons of fuel used/year} \div 1,000 \times 5.0 \text{ lbs/1000 gals} \div 2,000 \text{ lbs/ton}$			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): No fugitive emissions are associated with this Emissions Unit.			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

2. Pollutant Emitted: NOx		2. Total Percent Efficiency of Control: NA	
3. Potential Emissions: 11.67 lb/hour		tons/year	4. Synthetically Limited? NO
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 _____ to _____ tons/year			
6. Emission Factor: Reference: AP-42, Table 1.3-1		7. Emissions Method Code:	
8. Calculation of Emissions (limit to 600 characters): $\text{lbs/hour} = \text{Btu/hr heat input} \div \text{Btu/gal of fuel used} \div 1,000 \times 55.0 \text{ lbs/1000 gals}$ $\text{tons/year} = \text{Gallons of fuel used/year} \div 1,000 \times 55.0 \text{ lbs/1000 gals} \div 2,000 \text{ lbs/ton}$			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): No fugitive emissions are associated with this Emissions Unit.			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

3. Pollutant Emitted: PM		2. Total Percent Efficiency of Control: NA	
3. Potential Emissions: 7.00 lb/hour		tons/year	4. Synthetically Limited? NO
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 _____ to _____ tons/year			
6. Emission Factor: Reference: 66 x %ash = lbs / 1,000 gals used oil AP-42, Table 1.11-1		7. Emissions Method Code:	
8. Calculation of Emissions (limit to 600 characters): $\text{lbs/hour} = \text{Btu/hr heat input} \div \text{Btu/gal of fuel used} \div 1,000 \times (66 \times \% \text{ash}) \text{ lbs}/1000 \text{ gals}$ $\text{tons/year} = \text{Gallons of fuel used/year} \div 1,000 \times (66 \times \% \text{ash}) \text{ lbs}/1000 \text{ gals} \div 2,000 \text{ lbs/ton}$			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): No fugitive emissions are associated with this Emissions Unit.			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:		2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:		4. Equivalent Allowable Emissions: lb/hour tons/year	
5. Method of Compliance (limit to 60 characters):			
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):			

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
 (Regulated Emissions Units -
 Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

4. Pollutant Emitted: PM-10		2. Total Percent Efficiency of Control: NA	
3. Potential Emissions: 6.05 lb/hour		tons/year	4. Synthetically Limited? NO
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 _____ to _____ tons/year			
6. Emission Factor: Reference: 57 x %ash = lbs / 1,000 gals used oil AP-42, Table 1.11-1		7. Emissions Method Code:	
8. Calculation of Emissions (limit to 600 characters): $\text{lbs/hour} = \text{Btu/hr heat input} \div \text{Btu/gal of fuel used} \div 1,000 \times (57 \times \%ash) \text{ lbs/1000 gals}$ $\text{tons/year} = \text{Gallons of fuel used/year} \div 1,000 \times (57 \times \%ash) \text{ lbs/1000 gals} \div 2,000 \text{ lbs/ton}$			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): No fugitive emissions are associated with this Emissions Unit.			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
 (Regulated Emissions Units -
 Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

5. Pollutant Emitted: <p align="center">SO₂</p>	2. Total Percent Efficiency of Control: <p align="center">NA</p>
3. Potential Emissions: <p align="center">83.25 lb/hour tons/year</p>	4. Synthetically Limited? YES
5. Range of Estimated Fugitive Emissions: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 to tons/year	
6. Emission Factor: 157 x %S = lbs / 1,000 gals No. 6 oil Reference: AP-42, Table 1.3-1	7. Emissions Method Code:
8. Calculation of Emissions (limit to 600 characters): lbs/hour = Btu/hr heat input ÷ Btu/gal of fuel used ÷ 1,000 x (157 x %S) lbs/1000 gals tons/year = Gallons of fuel used/year ÷ 1,000 x (157 x %S) lbs/1000 gals ÷ 2,000 lbs/ton	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): No fugitive emissions are associated with this Emissions Unit.	

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: <p align="center">lb/hour tons/year</p>
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

**J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)**

Supplemental Requirements

1. Process Flow Diagram <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Identification of Additional Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
14. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Acid Rain Part Application (Hard-copy Required) <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: _____ <input type="checkbox"/> Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

**A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)**

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one) <input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent). <input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions. <input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.			
2. Regulated or Unregulated Emissions Unit? (Check one) <input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit. <input type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.			
6. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Boiler No. 2			
4. Emissions Unit Identification Number: 007 <input type="checkbox"/> No ID <input type="checkbox"/> ID Unknown			
5. Emissions Unit Status Code: A	6. Initial Startup Date: June-1980	7. Emissions Unit Major Group SIC Code: 02	8. Acid Rain Unit? [No]
9. Emissions Unit Comment: (Limit to 500 Characters) This boiler is used to generate steam for process heat associated with rendering activities.			

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):

NA

2. Control Device or Method Code(s):

Emissions Unit Details

1. Package Unit:

Manufacturer: Cleaver Brooks

Model Number: CB 400-800

2. Generator Nameplate Rating: MW

3. Incinerator Information: NA

Dwell Temperature: °F

Dwell Time: seconds

Incinerator Afterburner Temperature: °F

**B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)**

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	33.5 mmBtu/hr	
2. Maximum Incineration Rate:	0.00 lb/hr	0.00 tons/day
3. Maximum Process or Throughput Rate:		
4. Maximum Production Rate:		
5. Requested Maximum Operating Schedule:	11 hours/day	6 days/week
	52 weeks/year	3,432 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):		

**D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? Stack C		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Emission Point Type 1.			
7. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA.			
8. Discharge Type Code: W	6. Stack Height: 31 feet	7. Exit Diameter: 2.0 feet	
8. Exit Temperature: 375 - 450 °F	9. Actual Volumetric Flow Rate: 10,900 acfm	10. Water Vapor: 10 %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 389.70 North (km): 3294.90			
14. Emission Point Comment (limit to 200 characters): This boiler has been permitted to burn No. 6 fuel oil, on-spec waste oil and Waste Cooking Oil (WCO).			

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 1 of 3

1. Segment Description (Process/Fuel Type) (limit to 500 characters): # 6 fuel oil used as fuel in the boilers.		
2. Source Classification Code (SCC): 2102005000	3. SCC Units: Thousand gallons burned	
4. Maximum Hourly Rate: 0.222	5. Maximum Annual Rate:	6. Est Annual Activity Factor:
7. Maximum % Sulfur: 2.5	8. Maximum % Ash:	9. Million Btu per SCC Unit: 157.80
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment 2 of 3

1. Segment Description (Process/Fuel Type) (limit to 500 characters): On-Specification used oil used as fuel in the boilers.		
2. Source Classification Code (SCC): 2102004000	3. SCC Units: Thousand gallons burned	
4. Maximum Hourly Rate: 0.259	5. Maximum Annual Rate:	6. Est Annual Activity Factor:
7. Maximum % Sulfur: 0.05	8. Maximum % Ash: 0.5	9. Million Btu per SCC Unit: 129.36
10. Segment Comment (limit to 200 characters):		

**E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)**

Segment Description and Rate: Segment 3 of 3

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Processed grease used as fuel in the boilers.		
2. Source Classification Code (SCC): 1-02-004-01	3. SCC Units: Thousand gallons burned	
4. Maximum Hourly Rate: 0.272	5. Maximum Annual Rate:	6. Est Annual Activity Factor:
7. Maximum % Sulfur: 0.05	8. Maximum % Ash:	9. Million Btu per SCC Unit: 123.37
10. Segment Comment (limit to 200 characters): Processed grease consists of animal and/or vegetable fats and greases that have been produced and/or recycled at our facility.		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
CO	NA	NA	NS
NOx	NA	NA	NS
PM	NA	NA	NS
PM-10	NA	NA	NS
SO2	NA	NA	EL
VOC	NA	NA	NS
Lead	NA	NA	NS

**G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
 (Regulated Emissions Units -
 Emissions-Limited and Preconstruction Review Pollutants Only)**

Potential/Fugitive Emissions

1. Pollutant Emitted: <p align="center">CO</p>		2. Total Percent Efficiency of Control: <p align="center">NA</p>	
3. Potential Emissions: 1.06 lb/hour		tons/year	4. Synthetically Limited? NO
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 _____ to _____ tons/year			
6. Emission Factor: Reference: AP-42, Table 1.3-1		7. Emissions Method Code:	
8. Calculation of Emissions (limit to 600 characters): $\text{lbs/hour} = \text{Btu/hr heat input} \div \text{Btu/gal of fuel used} \div 1,000 \times 5.0 \text{ lbs/1000 gals}$ $\text{tons/year} = \text{Gallons of fuel used/year} \div 1,000 \times 5.0 \text{ lbs/1000 gals} \div 2,000 \text{ lbs/ton}$			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): No fugitive emissions are associated with this Emissions Unit.			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
 (Regulated Emissions Units -
 Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: <p align="center">NOx</p>		2. Total Percent Efficiency of Control: <p align="center">NA</p>	
3. Potential Emissions: <p align="center">11.67 lb/hour</p>		tons/year	4. Synthetically Limited? NO
5. Range of Estimated Fugitive Emissions: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 _____ to _____ tons/year			
6. Emission Factor: Reference: AP-42, Table 1.3-1		7. Emissions Method Code:	
8. Calculation of Emissions (limit to 600 characters): lbs/hour = Btu/hr heat input ÷ Btu/gal of fuel used ÷ 1,000 x 55.0 lbs/1000 gals tons/year = Gallons of fuel used/year ÷ 1,000 x 55.0 lbs/1000 gals ÷ 2,000 lbs/ton			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): No fugitive emissions are associated with this Emissions Unit.			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: <p align="center">lb/hour tons/year</p>
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: <p align="center">PM</p>		2. Total Percent Efficiency of Control: <p align="center">NA</p>	
3. Potential Emissions: <p align="center">lb/hour</p>		4. Synthetically Limited? NO <p align="center">tons/year</p>	
5. Range of Estimated Fugitive Emissions: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 _____ to _____ tons/year			
6. Emission Factor: Reference: AP-42, Table 1.11-1		7. Emissions Method Code: 66 x %ash = lbs / 1,000 gals used oil	
8. Calculation of Emissions (limit to 600 characters): lbs/hour = Btu/hr heat input ÷ Btu/gal of fuel used ÷ 1,000 x (66 x %ash) lbs/1000 gals tons/year = Gallons of fuel used/year ÷ 1,000 x (66 x %ash) lbs/1000 gals ÷ 2,000 lbs/ton			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): No fugitive emissions are associated with this Emissions Unit.			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:		2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:		4. Equivalent Allowable Emissions: <p align="center">lb/hour tons/year</p>	
5. Method of Compliance (limit to 60 characters):			
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):			

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: PM-10		2. Total Percent Efficiency of Control: NA	
3. Potential Emissions: 6.05 lb/hour		tons/year	4. Synthetically Limited? NO
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 _____ to _____ tons/year			
6. Emission Factor: Reference: AP-42, Table 1.11-1		7. Emissions Method Code:	
8. Calculation of Emissions (limit to 600 characters): $\text{lbs/hour} = \text{Btu/hr heat input} \div \text{Btu/gal of fuel used} \div 1,000 \times (57 \times \% \text{ash}) \text{lbs}/1000 \text{ gals}$ $\text{tons/year} = \text{Gallons of fuel used/year} \div 1,000 \times (57 \times \% \text{ash}) \text{lbs}/1000 \text{ gals} \div 2,000 \text{ lbs/ton}$			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): No fugitive emissions are associated with this Emissions Unit.			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:		2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:		4. Equivalent Allowable Emissions: lb/hour tons/year	
5. Method of Compliance (limit to 60 characters):			
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):			

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: <p align="center">SO₂</p>		2. Total Percent Efficiency of Control: <p align="center">NA</p>	
3. Potential Emissions: 83.25 lb/hour		tons/year	4. Synthetically Limited? YES
5. Range of Estimated Fugitive Emissions: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 _____ to _____ tons/year			
6. Emission Factor: Reference: AP-42, Table 1.3-1		7. Emissions Method Code:	
8. Calculation of Emissions (limit to 600 characters): lbs/hour = Btu/hr heat input ÷ Btu/gal of fuel used ÷ 1,000 x (157 x %S) lbs/1000 gals tons/year = Gallons of fuel used/year ÷ 1,000 x (157 x %S) lbs/1000 gals ÷ 2,000 lbs/ton			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): No fugitive emissions are associated with this Emissions Unit.			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:		2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:		lb/hour	tons/year
4. Equivalent Allowable Emissions:			
5. Method of Compliance (limit to 60 characters):			
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):			

**J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)**

Supplemental Requirements

<p>1. Process Flow Diagram <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested</p>
<p>2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested</p>
<p>3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested</p>
<p>4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested</p>
<p>5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input type="checkbox"/> Not Applicable</p>
<p>6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested</p>
<p>7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested</p>
<p>8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>
<p>9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>
<p>10. Supplemental Requirements Comment:</p>

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Identification of Additional Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
14. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Acid Rain Part Application (Hard-copy Required) <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: _____ <input type="checkbox"/> Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

**A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)**

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)			
[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).			
[] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.			
[] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.			
2. Regulated or Unregulated Emissions Unit? (Check one)			
[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.			
[] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.			
9. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Boiler No. 3			
4. Emissions Unit Identification Number: 008			
[] No ID			
[] ID Unknown			
5. Emissions Unit Status Code: A	6. Initial Startup Date: June-2001	7. Emissions Unit Major Group SIC Code: 02	10. Acid Rain Unit? [No]
11. Emissions Unit Comment: (Limit to 500 Characters) This boiler is used to generate steam for process heat associated with rendering activities. In June of 2001 the existing 750 HP Johnston boiler was replaced because of mechanical problems with another 750 HP Johnston boiler. (See 5/2/01 letter from the Department.)			

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method): NA
2. Control Device or Method Code(s): NA

Emissions Unit Details

1. Package Unit: Manufacturer: Johnston Boiler Company Model Number:
2. Generator Nameplate Rating: MW
3. Incinerator Information: NA Dwell Temperature: °F Dwell Time: seconds Incinerator Afterburner Temperature: °F

**B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)**

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	31.39 mmBtu/hr	
2. Maximum Incineration Rate:	0.00 lb/hr	0.00 tons/day
3. Maximum Process or Throughput Rate:		
4. Maximum Production Rate:		
5. Requested Maximum Operating Schedule:	11 hours/day	6 days/week
	52 weeks/year	3,432 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):		

**D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? Stack D		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Emission Point Type 1.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA.			
5. Discharge Type Code: W	6. Stack Height: 29.8 feet	7. Exit Diameter: 25 inches	
8. Exit Temperature: 350 – 425 °F	9. Actual Volumetric Flow Rate: 9,735 acfm	10. Water Vapor: 10 %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 389.70 North (km): 3294.90			
14. Emission Point Comment (limit to 200 characters): This boiler has been permitted to burn No. 6 fuel oil, on-spec waste oil and Waste Cooking Oil (WCO).			

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 1 of 3

1. Segment Description (Process/Fuel Type) (limit to 500 characters): # 6 fuel oil used as fuel in the boilers.		
2. Source Classification Code (SCC): 2102005000	3. SCC Units: Thousand gallons burned	
4. Maximum Hourly Rate: 0.222	5. Maximum Annual Rate:	6. Est Annual Activity Factor:
7. Maximum % Sulfur: 2.5	8. Maximum % Ash:	9. Million Btu per SCC Unit: 157.8
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment 2 of 3

1. Segment Description (Process/Fuel Type) (limit to 500 characters): On-Specification used oil used as fuel in the boilers.		
2. Source Classification Code (SCC): 2102004000	3. SCC Units: Thousand gallons burned	
4. Maximum Hourly Rate: 0.259	5. Maximum Annual Rate:	6. Est Annual Activity Factor:
7. Maximum % Sulfur: 0.05	8. Maximum % Ash: 0.5	9. Million Btu per SCC Unit: 129.36
10. Segment Comment (limit to 200 characters):		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 3 of 3

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Processed grease used as fuel in the boilers.		
2. Source Classification Code (SCC): 1-02-004-01	3. SCC Units: Thousand gallons burned	
4. Maximum Hourly Rate: 0.272	5. Maximum Annual Rate:	6. Est Annual Activity Factor:
7. Maximum % Sulfur: 0.05	8. Maximum % Ash:	9. Million Btu per SCC Unit: 123.37
10. Segment Comment (limit to 200 characters): Processed grease consists of animal and/or vegetable fats and greases that have been produced and/or recycled at our facility.		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: PM-10		2. Total Percent Efficiency of Control: NA	
3. Potential Emissions: 6.05 lb/hour		tons/year	4. Synthetically Limited? NO
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 _____ to _____ tons/year			
6. Emission Factor: Reference: AP-42, Table 1.11-1		7. Emissions Method Code:	
8. Calculation of Emissions (limit to 600 characters): $\text{lbs/hour} = \text{Btu/hr heat input} \div \text{Btu/gal of fuel used} \div 1,000 \times (57 \times \% \text{ash}) \text{lbs}/1000 \text{ gals}$ $\text{tons/year} = \text{Gallons of fuel used/year} \div 1,000 \times (57 \times \% \text{ash}) \text{lbs}/1000 \text{ gals} \div 2,000 \text{ lbs/ton}$			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): No fugitive emissions are associated with this Emissions Unit.			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:		2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:		lb/hour	tons/year
4. Equivalent Allowable Emissions:			
5. Method of Compliance (limit to 60 characters):			
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):			

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
 (Regulated Emissions Units -
 Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: VOC		2. Total Percent Efficiency of Control: NA	
3. Potential Emissions: 0.28 lb/hour		tons/year	4. Synthetically Limited? NO
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 _____ to _____ tons/year			
6. Emission Factor: Reference: 0.28 lbs / 1,000 gals No. 6 oil AP-42, Table 1.3-1		7. Emissions Method Code:	
8. Calculation of Emissions (limit to 600 characters): $\text{lbs/hour} = \text{Btu/hr heat input} \div \text{Btu/gal of fuel used} \div 1,000 \times 0.28 \text{ lbs/1000 gals}$ $\text{tons/year} = \text{Gallons of fuel used/year} \div 1,000 \times 0.28 \text{ lbs/1000 gals} \div 2,000 \text{ lbs/ton}$			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): No fugitive emissions are associated with this Emissions Unit.			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

**J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)**

Supplemental Requirements

1. Process Flow Diagram <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Identification of Additional Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
14. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Acid Rain Part Application (Hard-copy Required) <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: _____ <input type="checkbox"/> Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

**A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)**

Emissions Unit Description and Status

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.</p>			
<p>2. Regulated or Unregulated Emissions Unit? (Check one)</p> <p><input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.</p> <p><input type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.</p>			
<p>6. Description of Emissions Unit Addressed in This Section (limit to 60 characters):</p> <p>Bakery Waste Dryer</p>			
<p>4. Emissions Unit Identification Number: 010</p> <p> <input type="checkbox"/> No ID</p> <p> <input type="checkbox"/> ID Unknown</p>			
<p>5. Emissions Unit Status Code:</p> <p>A</p>	<p>6. Initial Startup Date:</p> <p>March-1997</p>	<p>7. Emissions Unit Major Group SIC Code:</p> <p>02</p>	<p>8. Acid Rain Unit?</p> <p>[No]</p>
<p>9. Emissions Unit Comment: (Limit to 500 Characters)</p> <p>The heat utilized by this dryer is obtained from the combustion of sawdust and scrap paper/packaging in the Closed Coupled Gasification Unit.</p>			

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):

NA The cyclone located downstream of the dryer is an integral part of the process and is used to separate the dried product from the air stream in order to send it on to the next process step. This device, by nature, also reduces particulate emissions.

2. Control Device or Method Code(s): 75

Emissions Unit Details

1. Package Unit:

Manufacturer: Scott Dryer Company

Model Number: SD-7218

2. Generator Nameplate Rating: MW

3. Incinerator Information:

Dwell Temperature: 1,800° F

Dwell Time: 3.00 seconds

Incinerator Afterburner Temperature: NA °F

**B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)**

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	22.0 mmBtu/hr	
2. Maximum Incineration Rate:	2,750 lb/hr	33.0 tons/day
3. Maximum Process or Throughput Rate:	Sawdust	= 2,750 lbs/hr
	Scrap paper/packaging	= 1,760 lbs/hr
4. Maximum Production Rate:		
5. Requested Maximum Operating Schedule:		
	24 hours/day	7 days/week
	52 weeks/year	8,760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):	A mixture of sawdust and scrap paper/packaging may be combusted provided that the 22.0 mmBtu/hr heat input is not exceeded.	

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 1 of 3

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Sawdust used for fuel in the Close Coupled Gasification Unit.		
2. Source Classification Code (SCC): 2390008000	3. SCC Units: Tons	
4. Maximum Hourly Rate: 1.375	5. Maximum Annual Rate: 12,045	6. Est Annual Activity Factor:
7. Maximum % Sulfur: 0.05	8. Maximum % Ash: 3.5	9. Million Btu per SCC Unit: 17.0
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment 2 of 3

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Scrap paper/packaging used for fuel in the Close Coupled Gasification Unit.		
4. Source Classification Code (SCC): 39001299	5. SCC Units: Tons	
10. Maximum Hourly Rate: 0.88	11. Maximum Annual Rate: 7,709	12. Est Annual Activity Factor:
13. Maximum % Sulfur: 0.15	14. Maximum % Ash: 7.0	15. Million Btu per SCC Unit: 32.0
10. Segment Comment (limit to 200 characters):		

**E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)**

Segment Description and Rate: Segment 3 of 3

2. Segment Description (Process/Fuel Type) (limit to 500 characters): Combination of sawdust and scrap paper/packaging used for fuel in the Close Coupled Gasification Unit.		
3. Source Classification Code (SCC): 39001299		3. SCC Units: Tons
10. Maximum Hourly Rate: 1.230	11. Maximum Annual Rate: 10,775	12. Est Annual Activity Factor:
13. Maximum % Sulfur: 0.15	14. Maximum % Ash: 7.0	15. Million Btu per SCC Unit: 21.5
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

**F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)**

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
CO	NA	NA	NS
NOx	NA	NA	NS
PM	NA	NA	NS
PM-10	NA	NA	NS
SO2	NA	NA	EL
VOC	NA	NA	NS
HCl	NA	NA	NS

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: <p align="center">CO</p>		2. Total Percent Efficiency of Control: <p align="center">NA</p>	
3. Potential Emissions: <p align="center">13.16 lb/hour</p>		tons/year	4. Synthetically Limited? NO
5. Range of Estimated Fugitive Emissions: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 _____ to _____ tons/year			
6. Emission Factor: <p align="center">13.16 lbs/hr</p>		7. Emissions Method Code:	
Reference: <p align="center">In-house stack test data</p>			
8. Calculation of Emissions (limit to 600 characters): tons/year = hours of operation/year x 13.16 lbs/hr ÷ 2,000 lbs/ton			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: <p align="center">lb/hour tons/year</p>
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
 (Regulated Emissions Units -
 Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: <p align="center">NO_x</p>		2. Total Percent Efficiency of Control: <p align="center">NA</p>	
3. Potential Emissions: 13.47 lb/hour		tons/year	4. Synthetically Limited? NO
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 _____ to _____ tons/year			
6. Emission Factor: Reference: 13.47 lb/hour In-house stack test data		7. Emissions Method Code:	
8. Calculation of Emissions (limit to 600 characters): tons/year = hours of operation/year x 13.47 lbs/hr ÷ 2,000 lbs/ton			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:		2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:		4. Equivalent Allowable Emissions: lb/hour tons/year	
5. Method of Compliance (limit to 60 characters):			
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):			

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
 (Regulated Emissions Units -
 Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: <p align="center">PM</p>		2. Total Percent Efficiency of Control: <p align="center">NA</p>	
3. Potential Emissions: <p align="center">10.30 lb/hour</p>		tons/year	4. Synthetically Limited?
5. Range of Estimated Fugitive Emissions: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 _____ to _____ tons/year			
6. Emission Factor: Reference: In-house stack test data		7. Emissions Method Code:	
8. Calculation of Emissions (limit to 600 characters): tons/year = hours of operation/year x 10.30 lbs/hr ÷ 2,000 lbs/ton			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: <p align="center">lb/hour tons/year</p>
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: <p align="center">SO₂</p>		2. Total Percent Efficiency of Control: <p align="center">NA</p>	
3. Potential Emissions: 0.783 lb/hour		tons/year	4. Synthetically Limited?
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 _____ to _____ tons/year			
6. Emission Factor: Reference: 0.783 lb/hour In-house stack test data		7. Emissions Method Code:	
8. Calculation of Emissions (limit to 600 characters): tons/year = hours of operation/year x 0.783 lbs/hr ÷ 2,000 lbs/ton			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: <p align="center">VOC</p>	2. Total Percent Efficiency of Control: <p align="center">NA</p>
3. Potential Emissions: <p align="center">lb/hour</p>	4. Synthetically Limited? <p align="center">tons/year</p>
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 _____ to _____ tons/year	
6. Emission Factor: lb/hour Reference: Alternate Control Technology Document for Bakery Oven Emissions.	7. Emissions Method Code:
8. Calculation of Emissions (limit to 600 characters): VOC E.F. = 0.95Y_i+0.195t_i+1.90 Where, VOC E.F. = Emission factor in pounds of VOC per ton of yeast containing dough processed Y _i = Initial baker's percent of yeast to the nearest tenth of a percent t _i = Total yeast action time in hours to the nearest hour (Customer proof time + Bakery Feeds proof time) VOC Emissions (tons/yr) = VOC E.F. x BP x .0005 Where, BP = Yeast containing dough processed in tons/year	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: <p align="center">lb/hour tons/year</p>
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: <p align="center">HCl</p>		2. Total Percent Efficiency of Control: <p align="center">NA</p>	
3. Potential Emissions: <p align="center">0.265 lb/hour</p>		tons/year	4. Synthetically Limited?
5. Range of Estimated Fugitive Emissions: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 _____ to _____ tons/year			
6. Emission Factor: Reference: In-house stack test data		7. Emissions Method Code:	
8. Calculation of Emissions (limit to 600 characters): tons/year = hours of operation/year x 0.265 lbs/hr ÷ 2,000 lbs/ton			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: <p align="center">lb/hour tons/year</p>
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

**J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)**

Supplemental Requirements

1. Process Flow Diagram <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

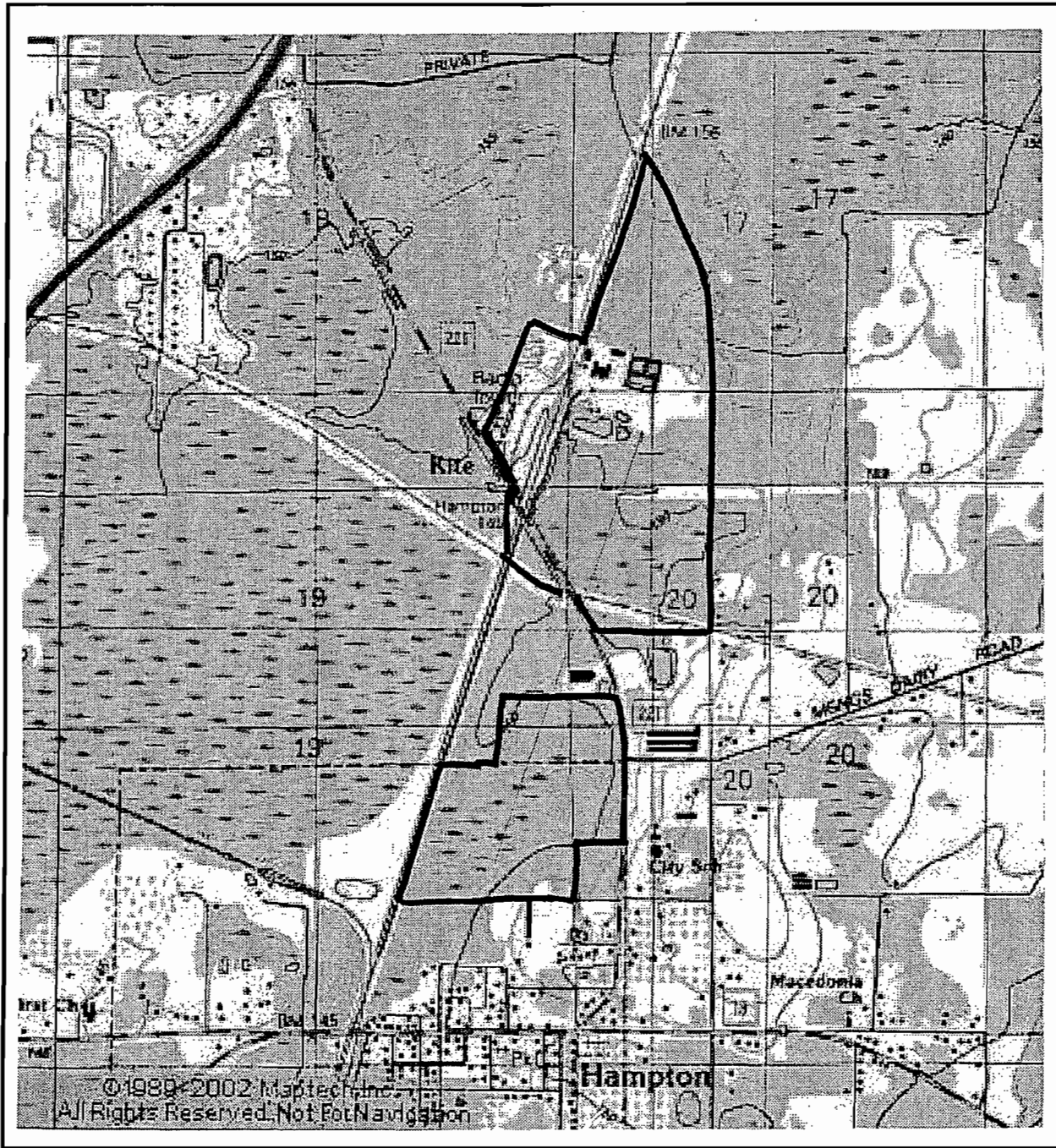
11. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Identification of Additional Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
14. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Acid Rain Part Application (Hard-copy Required) <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input type="checkbox"/> Phase II NO _x Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: _____ <input type="checkbox"/> Phase NO _x Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Griffin Industries, Inc.
APPLICATION TO RENEW AIR PERMIT
HAMPTON, FLORIDA

APPENDICES

GRIFFIN INDUSTRIES, INC.
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APPENDIX A
SITE LOCATION



7.5 Minute USGS Topographic Maps

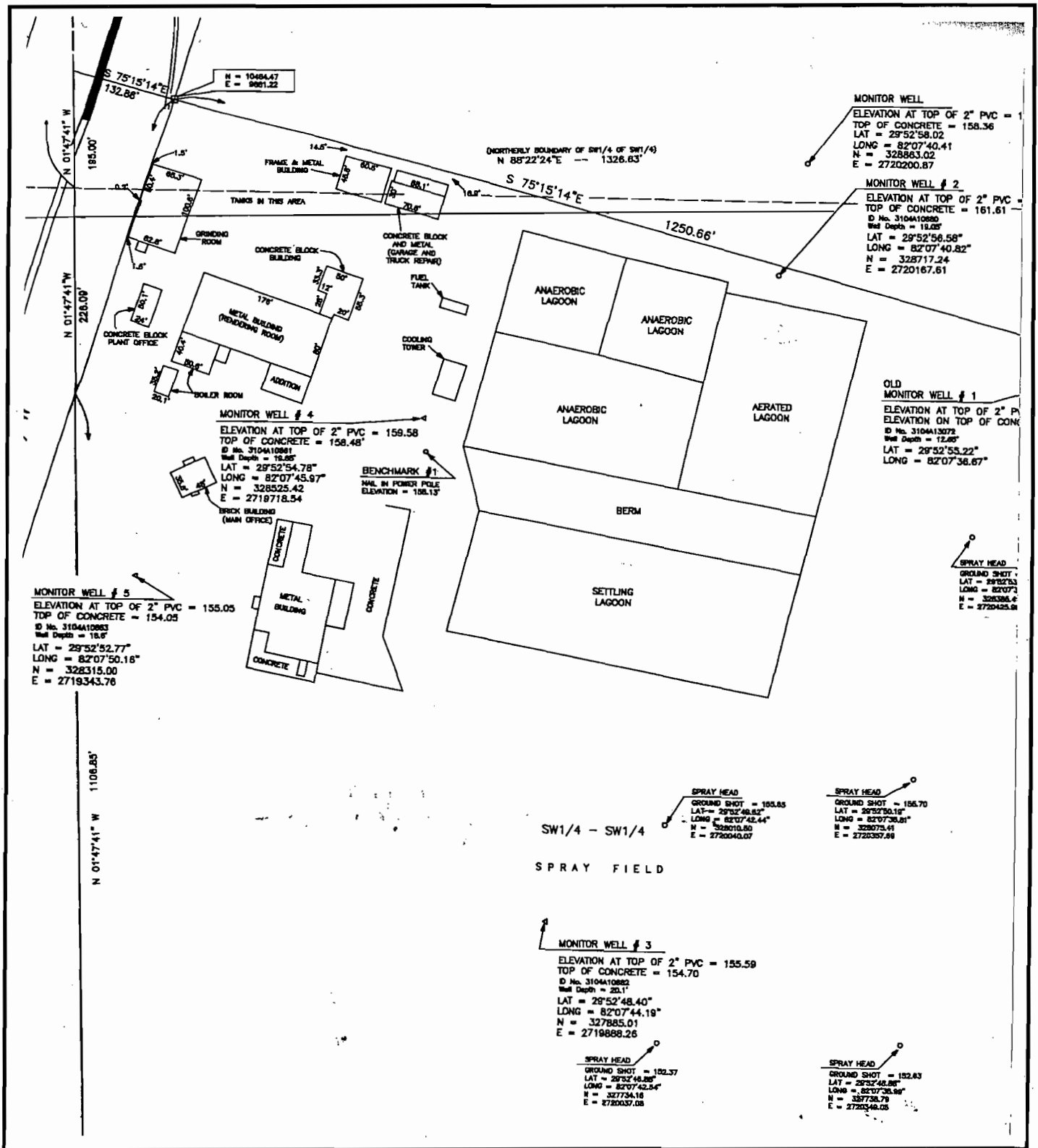
Stark, Florida Keystone Heights Florida
 Sampson, Florida, and Waldo, Florida

Latitude 29° 52' 54" Longitude 82° 07' 49"

GRIFFIN INDUSTRIES, INC.
SITE LOCATION
HAMPTON, FLORIDA

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APPLICATION TO RENEW AIR PERMIT
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APPENDIX B
FACILITY PLOT PLAN



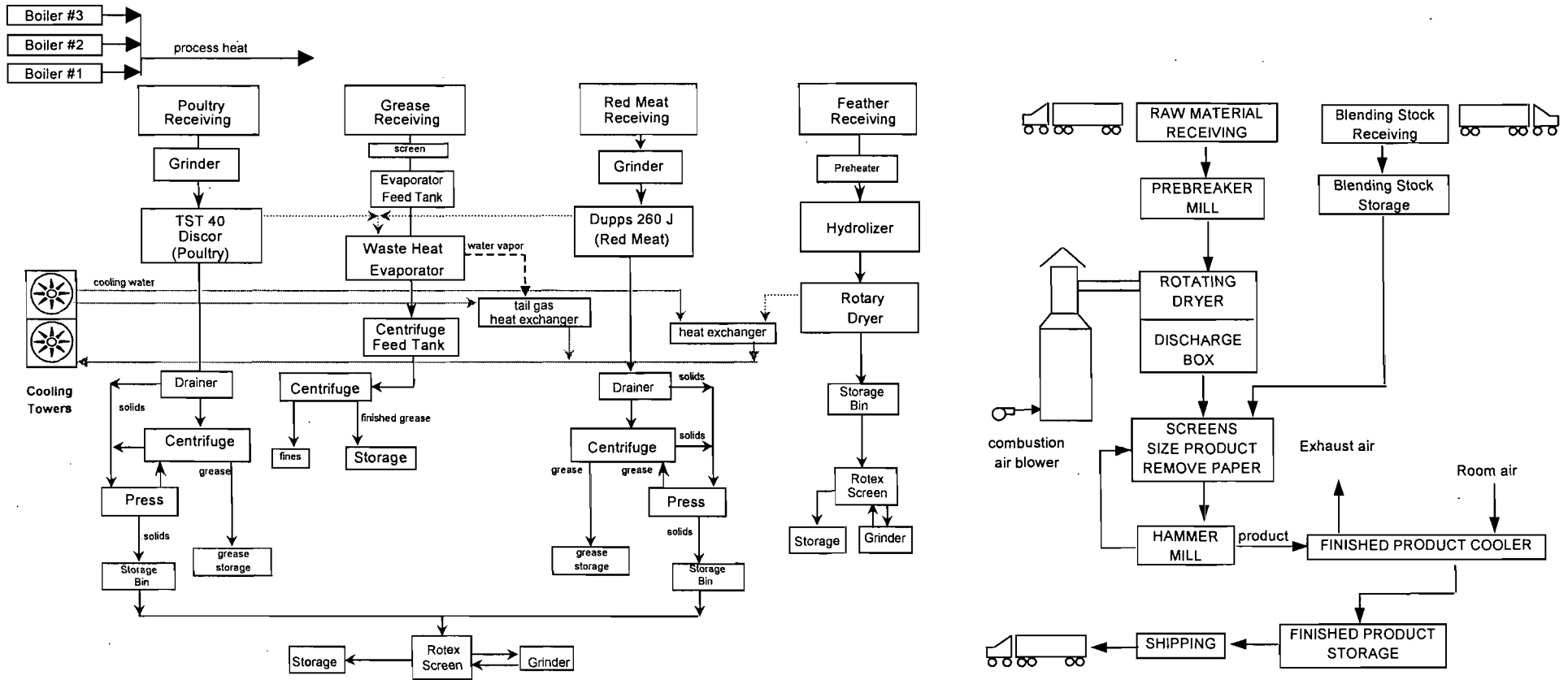
GRIFFIN INDUSTRIES, INC.
FACILITY PLOT PLAN
HAMPTON, FLORIDA

GRIFFIN INDUSTRIES, INC.
APPLICATION TO RENEW AIR PERMIT
HAMPTON, FLORIDA

APPENDIX C
PROCESS FLOW DIAGRAM

GRIFFIN INDUSTRIES, INC. HAMPTON, FL.

last modified 7/3/03



GRIFFIN INDUSTRIES, INC.
APPLICATION TO RENEW AIR PERMIT
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APPENDIX D
List of Insignificant Activities

List of Insignificant Activities

After a review of FAC 62-210 (3), the following emission units and pollution emitting activities present at the Griffin Industries Hampton, FL facility should be considered insignificant:

- Equipment used for steam cleaning
- Laboratory equipment used exclusively for chemical or physical analyses
- Laboratory fume hoods and vents used exclusively for chemical or physical analysis.
- Brazing, soldering, or welding equipment
- Storage vessels associated with fuel oil storage and vehicle refueling operations
- Storage Vessels containing inorganic aqueous liquids, and which do not include inorganic acids with boiling points below the maximum storage temperature at atmospheric temperature.
- No.2 oil-fired space heaters rated as less than 2.0 mmBTU/hr. actual heat input
- Degreasing operations (parts-washers used in routine maintenance) which do not exceed 145 gallons per month.
- Wastewater treatment activities with streams containing less than 1% oil and grease content by volume.
- Miscellaneous painting
- Routine facility maintenance.
- Use of paved haul roads and parking lots.
- Boiler and cooling tower blowdown operations.
- Farming operations (harvest of hay from spray irrigation systems).