

Application Routing and Transmittal Sheet *- for 2 apps*

Air Permitting Supervisor - Required Information for Project Setup by Admin			
Owner/(Facility Name, if needed): <i>Citrusco</i>		Facility ID No.: <i>1050001</i>	
New Facility (Y/N): <i>N</i>	Relocatable (Y/N): <i>N</i>	Project Description:	
Project Name: <i>Boiler Replacement</i>			
Type/Subtype: <i>ACE</i>	Received: <i>10/2/01</i>		
Fee Submitted: <i>() correct () incorrect</i>	Should Be \$ <i>0</i>	Override Reason (if needed):	
Fee Checked By: <i>J. Russell</i>	Submitted \$ <i>0</i>		
Date: <i>10/9/01</i>	Needed/Refund \$ _____		

② AVPZ

Admin - Project Setup Information		
Project No.: <i>① 004</i>	Initial ARMS Entry (Initials & Date): <i>JR 10/10/01</i>	Virus Scan Date: _____

② 005 ← Project 005 temporarily deleted and will be reinstated after project 004 is issued. Left voice mail for Ken Miller explaining this. -JK 10/11/01

Air Permitting Supervisor - Application Information			
Application Assigned To: <i>Q NOOR</i>	Date: <i>10/11/01</i>	<i>explaining this. -JK 10/11/01</i>	
No. of Hardcopies: <i>1</i>	No. of Disks: _____	Confidential Information (Y/N): <i>N</i>	
Application Distribution (hardcopy/disk): DEP Engineer: <i>1</i>		County: _____	Other: _____

Air Permitting - Permit Transmittal (add initials & date completed)				
Project No.:	Intent/Draft	Proposed (Title V Only)		Final
		Stage I	Stage II	
Engineer transmits permit to permit supervisor				
Permit supervisor transmits permit to DAPA				
DAPA transmits permit for issuance procedure				
Permit Package Mailed				
ARMS Events Entry				

RECEIVED
OCT 22 2001
BUREAU OF AIR REGULATION

Air Permitting Supervisor - Data Fields for Access System (add at final issuance)			
Owner (if different from above):			
Permit No.:	Issue Date:	Engineer:	
Facility Description:		Source Description:	
296:	MACT:	NSPS:	
Fuels:	Control Equipment:		
Comments:			

Air Permitting - System Updates (add initials & date completed)	
Engineer - Final Permit Copied (read only) to Air Common\Permits\Permit01\xxxxx :	
Engineer (Final Title V Permits only) - Zipped file copied to air common\permits\TV_zip\xxxx:	
Engineer - ARMS Summary Screen (Title V draft permits and admin corrections):	
Engineer - ARMS Inventory Data Entry:	
Permit Secretary - Permit List Data Entry (Access 97):	
Permitting Supervisor - copy of permit to compliance section ? Yes or No:	

CITROSUCO North America, Inc.

Mr. Gerald J. Kissel, P.E.
Air Permitting Supervisor
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Dr.
Tampa, Florida 33619

October 1, 2001

D.E.P.
OCT 02 2001
Southwest District Tampa

RECEIVED

OCT 19 2001

RE: Citrosuco, Lake Wales Plant
Boiler Replacement Air Permit Renewal 1050001

BUREAU OF AIR REGULATION

Dear Mr. Kissel;

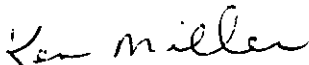
As we discussed I am attaching the Application for Air Permit – Title V Source for your review and approval.

We were considering this boiler replacement, due to the dry firing damage of the original permitted unit, as a like kind installation.

We greatly appreciate your assistance in expediting this permit renewal since our Installation timing is critical to the fast approaching Agricultural Season. This boiler is essential to our processing the fruit.

If you have any questions please contact our Engineer or me.

Sincerely;



Ken Miller

Cc. James A. Carnicelli, P.E., Ridge Professional Group w / attachment.

 CITROSUCO North America, Inc.

863-651-7498 - Cell Phone

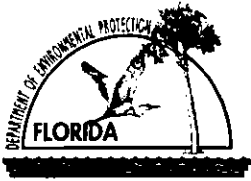
KEN MILLER
Safety & Compliance Director

5937 Highway 60 East
P.O. Box 3950
Lake Wales, FL 33859-3950

Telephone (863) 696-7400
Fax (863) 696-1092
E-Mail: kmiller@citrosuco.com

5937 Highway 60 East / P.O. Box 3950
Lake Wales, Florida 33859-3950
Tel: 863-696-7400 Fax: 863-696-1092

1000 Ferry Road
Wilmington, Delaware 19801
Tel: 302-652-8763 Fax: 302-652-3607



Department of Environmental Protection

Division of Air Resources Management

D.E.P.
OCT 02 2001
Southwest District Tampa

APPLICATION FOR AIR PERMIT - TITLE V SOURCE

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

I. APPLICATION INFORMATION

Identification of Facility

1. Facility Owner/Company Name: Citrusuco North America, Inc.	
2. Site Name: Lake Wales Plant	
3. Facility Identification Number: 105001 [] Unknown	
4. Facility Location: 5937 Highway 60, East Street Address or Other Locator: City: Lake Wales County: Polk Zip Code: 33898	
5. Relocatable Facility? [] Yes [X] No	6. Existing Permitted Facility? [X] Yes [] No

Application Contact

1. Name and Title of Application Contact: Nick Emanuel, C. O. O.	
2. Application Contact Mailing Address: Organization/Firm: Citrusuco North America, Inc. Street Address: 5937 Highway 60, East City: Lake Wales State: Florida Zip Code: 33898	
3. Application Contact Telephone Numbers: Telephone: (863) 696-7400 Fax: (863) 696-1092	

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

Air Operation Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

- Initial Title V air operation permit for an existing facility which is classified as a Title V source.
- Initial Title V air operation permit for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number: _____

- Title V air operation permit revision to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number: _____

Operation permit number to be revised: _____

- Title V air operation permit revision or administrative correction to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. (Also check Air Construction Permit Application below.)

Operation permit number to be revised/corrected: _____

- Title V air operation permit revision for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.

Operation permit number to be revised: _____

Reason for revision: _____

Air Construction Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

- Air construction permit to construct or modify one or more emissions units.
- Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.
- Air construction permit for one or more existing, but unpermitted, emissions units.

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 [], 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 [X], 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

9/27/04

Date

(seal)

* Attach any exception to certification statement.

Construction/Modification Information

1. Description of Proposed Project or Alterations:

Replacement of existing permitted boiler with identical boiler unit. Existing boiler firebox will be utilized and modified controls installed to update safety systems.

2. Projected or Actual Date of Commencement of Construction: 10-1-01

3. Projected Date of Completion of Construction: 11-1-01

Application Comment

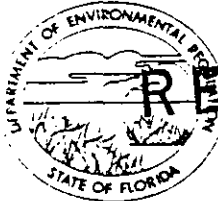
This replacement was necessitated due to control system shut down and dry firing in existing unit, which resulted in internal damage. Replacement shall be in like kind to original firebox, new control system and fuel supplied principally by natural gas with #4 diesel fuel backup.

STATE OF FLORIDA AC 57-151008
DEPARTMENT OF ENVIRONMENTAL REGULATION

750 00 RA
6-16-84

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610-9544



RECEIVED

JUN 16 1988

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

RICHARD D. GARRITY, PH.D.
DISTRICT MANAGER

APPLICATION TO OPERATE/CONSTRUCT ^{DER BAOM} AIR POLLUTION SOURCE

D.E.P.
OCT 02 2001
Southwest District Tampa

SOURCE TYPE: BOILER - JOHNSTON 1000 [] New¹ [] Existing¹

APPLICATION TYPE: [] Construction [] Operation [] Modification

COMPANY NAME: ALCOMA PACKING COMPANY, INC. COUNTY: POLK

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired)

SOURCE LOCATION: Street 5 mi. East on S.R. 60 City Lake Wales

UTM: East 17 452.4 North 3085.5

Latitude ° ' "N Longitude ° ' "W

APPLICANT NAME AND TITLE: SAMUEL D. UPDIKE, Vice President

APPLICANT ADDRESS: P. O. Box 231 (5937 Hwy 60 East) Lake Wales, FL 33859-0231

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of ALCOMA PACKING COMPANY, INC.

I certify that the statements made in this application for a CONSTRUCTION permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permitted establishment.

*Attach letter of authorization

Signed: Samuel D. Updike

SAMUEL D. UPDIKE, VICE PRESIDENT

Name and Title (Please Type)

Date: 6/10/88 Telephone No. (813) 696-1487

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

¹ See Florida Administrative Code Rule 17-2.100(57) and (104)

the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signed Samuel D. Updike
SAMUEL D. UPDIKE
Name (Please Type)

ALCOMA PACKING COMPANY, INC.
Company Name (Please Type)
P. O. Box 231, LAKE WALES, FL 33859-0231
Mailing Address (Please Type)

Florida Registration No. 22652 Date: July 9, 1976 Telephone No. (813) 696-1487

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.

REPLACEMENT OF A JOHNSTON 600 HOP BOILER WITH A JOHNSTON SUPER 509 HIGH EFFICIENCY 1000 HP BOILER - CATALOG # PFTA 1000-4H-200. THIS UNIT SUPPLIES 34,000 LBS STEAM/HR TO CITRUS JUICE EVAPORATORS. THE OWNER WARRENTS THIS BOILER TO BE IN FULL COMPLIANCE WITH CAPTER 17-2

B. Schedule of project covered in this application (Construction Permit Application Only)
Start of Construction September 1, 1988 Completion of Construction October 31, 1988

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.)

N/A

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

THIS BOILER REPLACES AN 11-YEAR OLD JOHNSTON UNIT - FDER PERMIT AO 53-141141.

D.E.P.
OCT 02 2001
Southwest District Tampa

E. Requested permitted equipment operating time: hrs/day 20*; days/wk 6; wks/yr 52
if power plant, hrs/yr 3000; if seasonal, describe: THE CITRUS PROCESSING SEASON VARIES
FROM 2000 TO 3000 HR/YR DEPENDING ON FRUIT SUPPLY. THE SEASON LASTS FROM NOVEMBER TO
JUNE. * (BOILER CAN OPERATE 24 HRS PER DAY, HOWEVER SEASON TOTAL \leq 3000 HRS.
PER YEAR.)

F. 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? NO
 - 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. YES
- 3. Does the State "Prevention of Significant Deterioration" (PSD)
requirement apply to this source? If yes, see Sections VI and VII. NO
- 4. Do "Standards of Performance for New Stationary Sources" (NSPS)
apply to this source? NO
- 5. Do "National Emission Standards for Hazardous Air Pollutants"
(NESHAP) apply to this source? NO

- H. Do "Reasonably Available Control Technology" (RACT) requirements apply
to this source? NO
- a. If yes, for what pollutants? N/A
 - b. If yes, in addition to the information required in this form,
any information requested in Rule 17-2.650 must be submitted.

Attach all supportive information related to any answer of "Yes". Attach any justifi-
cation for any answer of "No" that might be considered questionable. N/A

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

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
STEAM			34,000	N/A

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

1. Total Process Input Rate (lbs/hr): WATER 34,000 LBS/HR
2. Product Weight (lbs/hr): STEAM 34,000 LBS/HR

C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

Name of Contaminant	Emission ¹		Allowed Emission Rate per Rule 17-2	Allowable Emission lbs/hr	Potential ⁴ Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
SO ₂	51	67.6			152,000	76	N/A
NO*	11.8	17.7			35,400	17.7	
HYDROCARBONS	.34	.5			1,000	.5	
PARTICULATES	4.1	6.1			12,200	6.1	
CO	1.3	2.0			4,000	2.0	

¹See Section V, Item 2.

²Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million BTU heat input).

³Calculated from operating rate and applicable standard.

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

(*) ESTIMATES BASED ON AP-42 INFORMATION

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
# 6 FUEL OIL	1680	2100 LB	38.0

*Units: Natural Gas--MMCF/hr; Fuel Oils--gallons/hr; Coal, wood, refuse, other--lbs/hr.

Fuel Analysis:

Percent Sulfur: 1.25% Percent Ash: 0.04

Density: 8.0 lbs/gal Typical Percent Nitrogen: .24

Heat Capacity: 18,750 AVG BTU/lb 150,000 BTU/gal

Other Fuel Contaminants (which may cause air pollution): _____

PARTICULATES, NOX, HYDROCARBONS, CARBON MONOXIDE

F. If applicable, indicate the percent of fuel used for space heating. N/A

Annual Average _____ Maximum _____

G. Indicate liquid or solid wastes generated and method of disposal.

BOILER BLOWN DOWN WATER WHICH IS DISCHARGED TO FDER LICENSED SPRAY FIELD.

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: 70 ft. Stack Diameter: 2.3 ft.
 Gas Flow Rate: 13,000 ACFM N/A DSCFM Gas Exit Temperature: 404 °F.
 Water Vapor Content: 8.2 % Velocity: 57.67 FPS

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

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

	Volume (ft) ³	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: _____ ft. Stack Diameter: _____ Stack Temp. _____
 Gas Flow Rate: _____ ACFM _____ DSCFM* Velocity: _____ FPS

*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device: Cyclone Wet Scrubber Afterburner
 Other (specify) _____

Brief description of operating characteristics of control devices: N/A

Ultimate disposal of any effluent other than that emitted from the stack (scrubber water, ash, etc.):

BOILER BLOWDOWN IS DISCHARGED TO EDER LICENSED SPRAY FIELD

NOTE: Items 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where applicable.

SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, design pressure drop, etc.)
5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emissions = potential (1-efficiency).
6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.
10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

Yes No

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)

Yes No

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology?

Contaminant

Rate or Concentration

SO₂

PARTICULATE BASED ON

SO₂ CONTENT AP-42

D. Describe the existing control and treatment technology (if any).

- | | |
|---|------------------------------|
| 1. Control Device/System: REDUCED SULFUR FUEL | 2. Operating Principles: N/A |
| 3. Efficiency:* N/A | 4. Capital Costs: N/A |

*Explain method of determining

5. Useful Life: N/A
 7. Energy: None
 9. Emissions: SO₂

6. Operating Costs: \$42,000/YR
 8. Maintenance Cost: None

Contaminant	Rate or Concentration
SO ₂	51 LB/HR

10. Stack Parameters

a. Height: 70 ft. b. Diameter: 2.3 ft.
 c. Flow Rate: 13,000 ACFM d. Temperature: 404 °F.
 e. Velocity: 57.67 FPS

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary).

1.
 - a. Control Device:
 - b. Operating Principles:
 - c. Efficiency:¹
 - d. Capital Cost:
 - e. Useful Life:
 - f. Operating Cost:
 - g. Energy:²
 - h. Maintenance Cost:
 - i. Availability of construction materials and process chemicals:
 - j. Applicability to manufacturing processes:
 - k. Ability to construct with control device, install in available space, and operate within proposed levels:

2.
 - a. Control Device:
 - b. Operating Principles:
 - c. Efficiency:¹
 - d. Capital Cost:
 - e. Useful Life:
 - f. Operating Cost:
 - g. Energy:²
 - h. Maintenance Cost:
 - i. Availability of construction materials and process chemicals:

¹ Explain method of determining efficiency.

² Energy to be reported in units of electrical power - KWH design rate.

D.E.P.
OCT 02 2001
Southwest District Tampa

- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

3.

- a. Control Device:
- b. Operating Principles:
- c. Efficiency:¹
- d. Capital Cost:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:²
- h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

4.

- a. Control Device:
- b. Operating Principles:
- c. Efficiency:¹
- d. Capital Costs:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:²
- h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

F. Describe the control technology selected:

- 1. Control Device:
- 2. Efficiency:¹
- 3. Capital Cost:
- 4. Useful Life:
- 5. Operating Cost:
- 6. Energy:²
- 7. Maintenance Cost:
- 8. Manufacturer:
- 9. Other locations where employed on similar processes:
 - a. (1) Company:
 - (2) Mailing Address:
 - (3) City:
 - (4) State:

¹Explain method of determining efficiency.

²Energy to be reported in units of electrical power - KWH design rate.

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant	Rate or Concentration

(2) Process Rate:¹

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant	Rate or Concentration

(8) Process Rate:¹

10. Reason for selection and description of systems:

¹Applicant must provide this information when available. Should this information not be available, applicant must state the reason(s) why.

SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION

N/A

A. Company Monitored Data

1. _____ no. sites _____ TSP _____ () SO₂* _____ Wind spd/dir

Period of Monitoring _____ / _____ / _____ to _____ / _____ / _____
month day year month day year

Other data recorded _____

Attach all data or statistical summaries to this application.

*Specify bubbler (B) or continuous (C).

CALCULATION SHEET

AP-42 CALCULATIONS OF EMISSIONS

BASED ON 2100 LB PER HOUR (262 GAL PER HR)

3000 HOURS PER YEAR

INDUSTRIAL BOILER, 38 MM BTU/Hr, Residual Fuel

S = 1.25% Sulfur; N = .24% Nitrogen

1. SO₂ = 157 S lb/1000 gal

$$\frac{157 \times 1.25 \times 262}{1000} = \underline{51 \text{ lb/hr}}$$

$$\frac{51.42 \times 3000}{2000} = \underline{76 \text{ tons/yr}}$$

2. NO = 22 + 400N² lb/1000 gal

$$\frac{[22 + 400(.24)^2] 262}{1000} = \underline{11.8 \text{ lb/hr}}$$

$$\frac{11.8 \times 3000}{2000} = \underline{17.7 \text{ tons/yr}}$$

3. HYDROCARBONS (NonMethane + Methane) = .28 + 1.0 lb/1000 gal

$$\frac{(.28 + 1.0) \times 262}{1000} = \underline{0.34 \text{ lbs/hr}}$$

$$\frac{.33 \times 3000}{2000} = \underline{0.5 \text{ tons/yr}}$$

4. PARTICULATE = 10 S + 3 lb/1000 gal

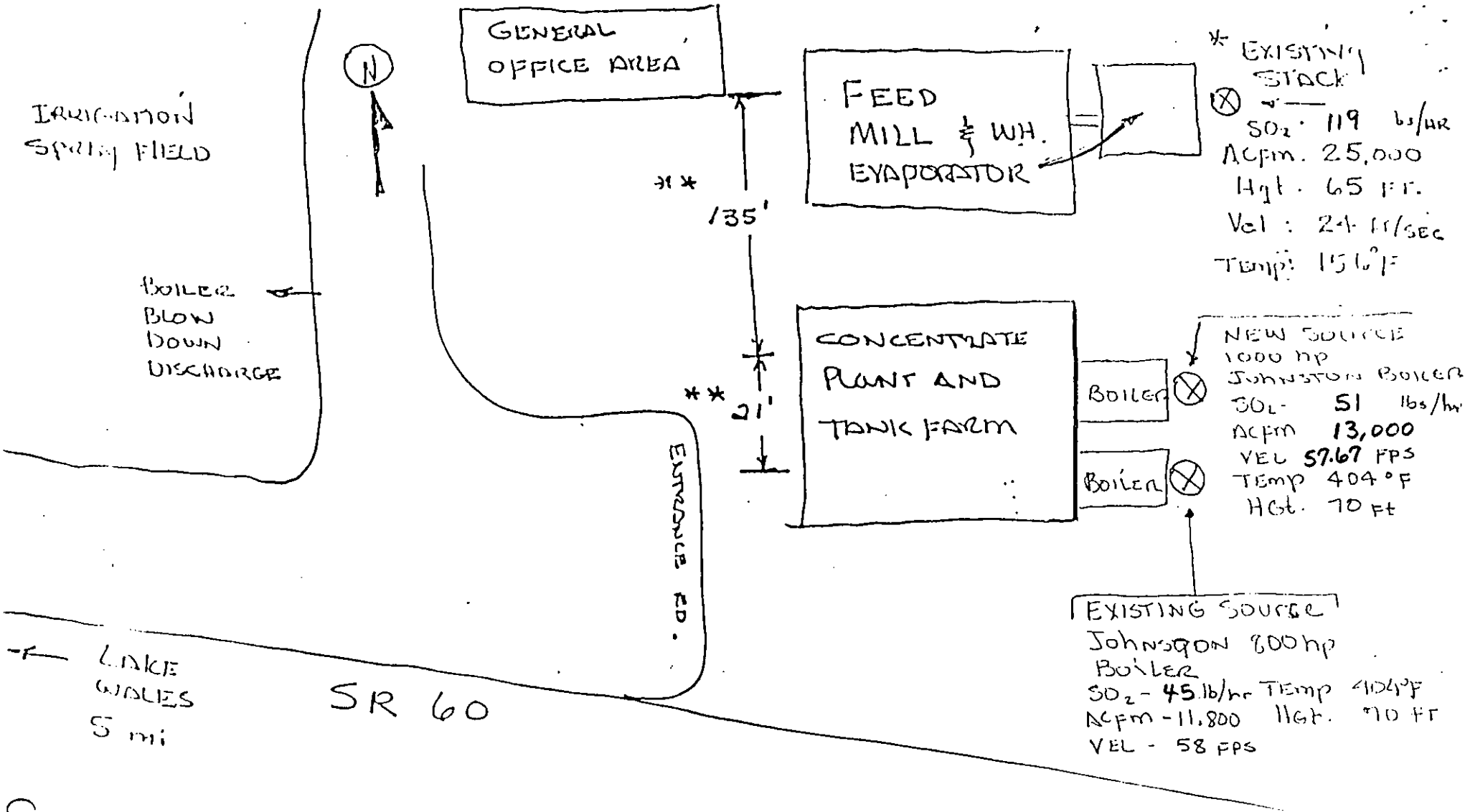
$$\frac{[(10 \times 1.25) + 3] 262}{1000} = \underline{4.1 \text{ lbs/hr}}$$

$$\frac{4.1 \times 3000}{2000} = \underline{6.1 \text{ tons/yr}}$$

5. CO = 5 lb/1000 gal

$$\frac{5 \times 262}{1000} = \underline{1.3 \text{ lb/hr}}$$

$$\frac{1.3 \times 3000}{2000} = \underline{2.0 \text{ tons/yr}}$$



* EXISTING STACK
 SO₂ 119 lbs/hr
 ACFM 25,000
 Hgt. 65 FT.
 Vel: 24 FT/SEC
 Temp: 156°F

NEW SOURCE
 1000 hp
 JOHNSON BOILER
 SO₂ 51 lbs/hr
 ACFM 13,000
 VEL 57.67 FPS
 TEMP 404°F
 HGT. 70 FT

EXISTING SOURCE
 JOHNSON 800hp
 BOILER
 SO₂ 45 lbs/hr Temp 404°F
 ACFM - 11,800 Hgt. 70 FT
 VEL - 58 FPS

* 1985 FDER FIELD MILL STACK TEST DATA
 ** DISTANCE BETWEEN STACKS - FT.

NOTES: BOTH EXISTING SOURCES OPERATE AT

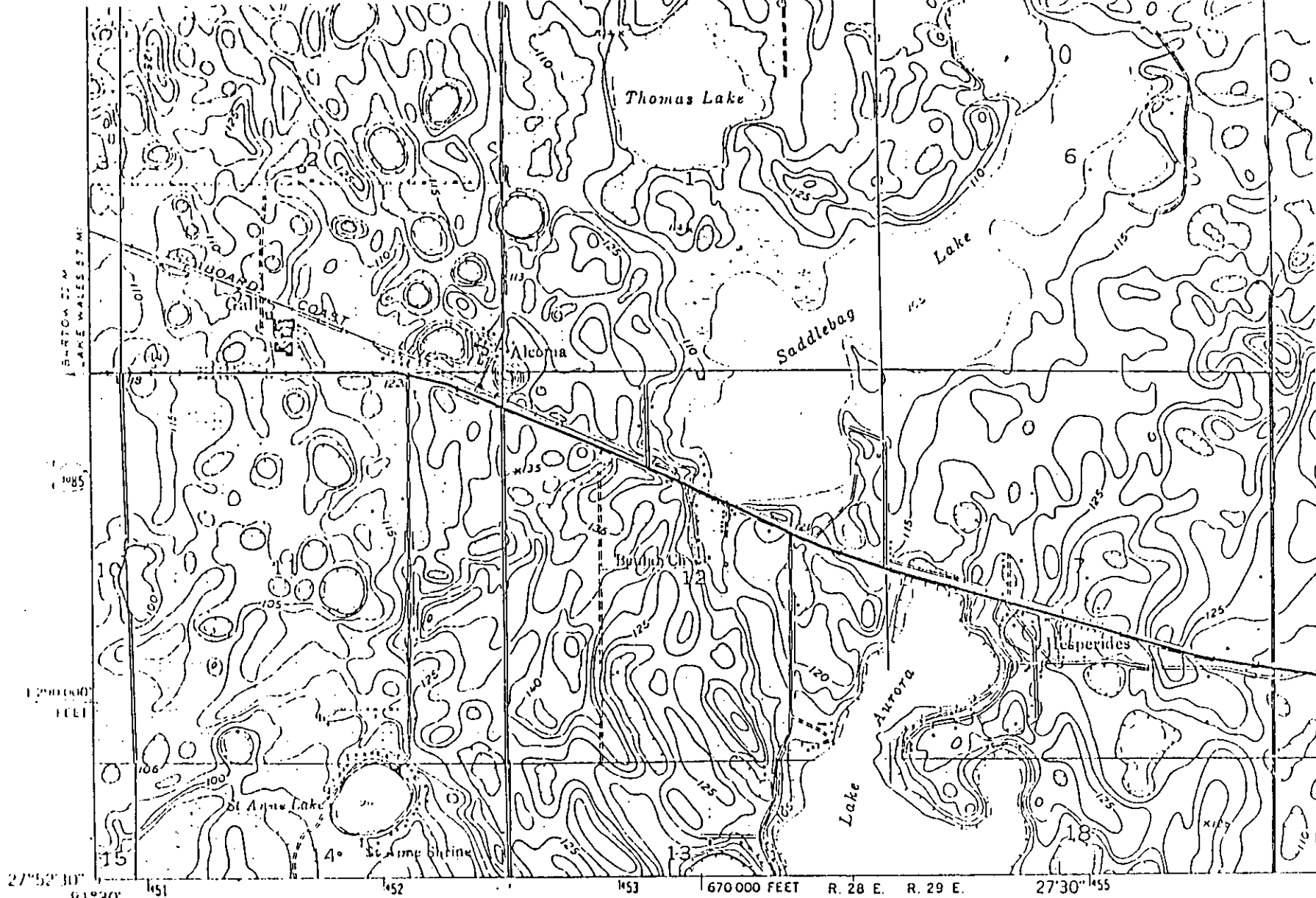
- 1320 lbs/hr @ 1.0% SULFUR
- 1320 lbs/hr @ 2.0% SULFUR

W.H. = WASTE HEAT EVAPORATOR

ALCOMA PACKING CO FACILITY LOCATION SR 60 LAKE WALKS

002.2

000.3

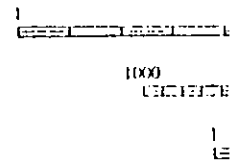
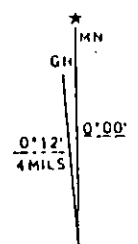


1845224 PAVEN
4023 1.1.5

Mapped by the U. S. Corps of Engineers
 Edited and published by the Geological Survey
 Control by USC&GS and USCE

Topography from aerial photographs by photogrammetric methods
 and by plane-table surveys 1951. Aerial photographs taken 1950
 Field check by the Geological Survey 1952

Polyconic projection. 1927 North American datum
 10,000 foot grid based on Florida coordinate system,
 west zone
 1000 meter Universal Transverse Mercator grid ticks



ITEM GRID AND 1972 MAGNETIC NORTH

TABLE 1.3-1. UNCONTROLLED EMISSION FACTORS FOR FUEL OIL COMBUSTION

EMISSION FACTOR RATING: A

1.3-2

EMISSION FACTORS

Boiler Type ^a	Particulate ^b Matter		Sulfur Dioxide ^c		Sulfur Trioxide		Carbon Monoxide ^d		Nitrogen Oxide ^e		Volatile Organics ^f Nonmethane		Methane	
	kg/10 ³ l	lb/10 ³ gal	kg/10 ³ l	lb/10 ³ gal	kg/10 ³ l	lb/10 ³ gal	kg/10 ³ l	lb/10 ³ gal	kg/10 ³ l	lb/10 ³ gal	kg/10 ³ l	lb/10 ³ gal	kg/10 ³ l	lb/10 ³ gal
Utility Boilers Residual Oil	8	8	19S	157S	0.34S ^h	2.9S ^h	0.6	5	8.0 (12.6)(5) ⁱ	67 (105)(42) ⁱ	0.09	0.76	0.03	0.28
Industrial Boilers Residual Oil	8	8	19S	157S	0.24S	2S	0.6	5	6.6 ^j	55 ^j	0.034	0.28	0.12	1.0
Distillate Oil	0.24	2	17S	142S	0.24S	2S	0.6	5	2.4	20	0.024	0.2	0.006	0.052
Commercial Boilers Residual Oil	8	8	19S	157S	0.24S	2S	0.6	5	6.6	55	0.14	1.13	0.057	0.475
Distillate Oil	0.24	2	17S	142S	0.24S	2S	0.6	5	2.4	20	0.04	0.34	0.026	0.216
Residential Furnaces Distillate Oil	0.3	2.5	17S	142S	0.24S	2S	0.6	5	2.2	18	0.085	0.713	0.214	1.78

^aBoilers can be approximately classified according to their gross (higher) heat rate as shown below:

- Utility (power plant) boilers: >106 x 10⁹ J/hr (>100 x 10⁶ Btu/hr)
- Industrial boilers: 10.6 x 10⁹ to 106 x 10⁹ J/hr (10 x 10⁶ to 100 x 10⁶ Btu/hr)
- Commercial boilers: 0.5 x 10⁹ to 10.6 x 10⁹ J/hr (0.5 x 10⁶ to 10 x 10⁶ Btu/hr)
- Residential furnaces: <0.5 x 10⁹ J/hr (<0.5 x 10⁶ Btu/hr)

^bReferences 3-7 and 24-25. Particulate matter is defined in this section as that material collected by EPA Method 5 (front half catch).

^cReferences 1-5. S indicates that the weight X of sulfur in the oil should be multiplied by the value given.

^dReferences 3-5 and 8-10. Carbon monoxide emissions may increase by factors of 10 to 100 if the unit is improperly operated or not well maintained.

^eExpressed as NO₂. References 1-5, 8-11, 17 and 26. Test results indicate that at least 95% by weight of NO_x is NO for all boiler types except residential furnaces, where about 75% is NO.

^fReferences 18-21. Volatile organic compound emissions are generally negligible unless boiler is improperly operated or not well maintained, in which case emissions may increase by several orders of magnitude.

^gParticulate emission factors for residual oil combustion are, on average, a function of fuel oil grade, and sulfur content:

- Grade 6 oil: 1.25(S) + 0.38 kg/10³ liter [10(S) + 3 lb/10³ gal] where S is the weight X of sulfur in the oil. This relationship is based on 81 individual tests and has a correlation coefficient of 0.65.
- Grade 5 oil: 1.25 kg/10³ liter (10 lb/10³ gal)
- Grade 4 oil: 0.88 kg/10³ liter (7 lb/10³ gal)

$$\frac{10(S) + 3 \text{ lb}}{1000 \text{ gal}}$$

^hReference 25.

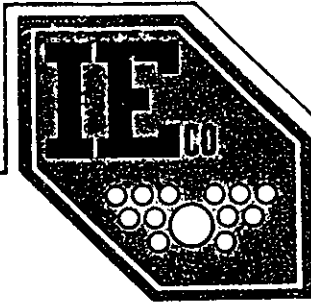
ⁱUse 5 kg/10³ liter (42 lb/10³ gal) for tangentially fired boilers, 12.6 kg/10³ liter (105 lb/10³ gal) for vertical fired boilers, and 8.0 kg/10³ liter (67 lb/10³ gal) for all others, at full load and normal (>15%) excess air. Several combustion modifications can be employed for NO_x reduction: (1) limited excess air can reduce NO_x emissions 5-20%, (2) staged combustion 20-40%, (3) using low NO_x burners 20-50%, and (4) ammonia injection can reduce NO_x emissions 40-70% but may increase emissions of ammonia. Combinations of these modifications have been employed for further reductions in certain boilers. See Reference 23 for a discussion of these and other NO_x reducing techniques and their operational and environmental impacts.

^jNitrogen oxide emissions from residual oil combustion in industrial and commercial boilers are strongly related to fuel nitrogen content, estimated more accurately by the empirical relationship:

$$\text{kg NO}_2/10^3 \text{ liters} = 2.75 + 50(N)^2 \quad [\text{lb NO}_2/10^3 \text{ gal} = 22 + 400(N)^2] \text{ where } N \text{ is the weight } X \text{ of nitrogen in the oil. For residual oils having high (>0.5 weight } X) \text{ nitrogen content, use } 15 \text{ kg NO}_2/10^3 \text{ liter (120 lb NO}_2/10^3 \text{ gal) as an emission factor.}$$

Oct 4

8/82



Industrial Engineering Co.

2407 JOHN YOUNG PARKWAY
ORLANDO, FLORIDA 32804
(407) 293-9317

FL WATS: 1-800-432-6304
NAT WATS: 1-800-325-5997
FAX: 1-407-290-2381

JUNE 10, 1988

ALCOMA PACKING
P. O. BOX 231
Lake Wales, FL 33853

ATTN: Mr. Sam Updike

SUBJECT: New Boiler Information

Dear Sam,

Regarding technical information on the new 1000 H.P. boiler for your DER operating permit, we are pleased to provide the following information.

Exhaust Gas Flow Rate - 13,000 ACFM
Exit Gas Temperature - 404°F.
Exhaust Gas Water Vapor Content - 8.2%
Exhaust Gas Velocity - 57.67 ft. per sec.

Regarding our Invoice #05520 on the steam recorder I agree that this should not be for your account. We paid the service technician to check out the unit, but inasmuch as it never did satisfactorily offer you any usable information, we agreed that you are not liable for this bill. We will credit it off the records. So, please disregard it.

Thank you for allowing us to submit the above information.

Sincerely,

DOUGLAS L. FILLMON
DLF/AFS

Att. 5



SGS Control Services Inc.
 Redwood Petroleum and Petrochemical Division
 P.O. BOX 75009 TEL: (813) 247-3984
 TAMPA, FL 33675-0009 TELEX: 441-075

DL
D.E.R.
 OCT 02 2001
 Southwest District Tampa

PG27JM
 4-7-88

Analysis Certificate

To Accompany Report No. : 171904
 Laboratory Reference No. : LP-8803-120

Date : March 21, 1988
 Client : SPC/SHORE TANK 4
 Client Ref. :

Sample Marked : Shore Tank 4 Composite
 Sample Description : Described As No. 6 Fuel Oil
 Sampling Method : Top, Middle & Bottom Levels
 Sampling Location : SPC/Tampa, FL
 In Association with : Discharge Of Barge FLORIDA/Close
 Sample Submitted By : SGS Control Services Inc.
 Date of Sampling : March 19, 1988

<u>TEST</u>	<u>METHOD</u>	<u>RESULT</u>
GRAVITY, A.P.I. @ 60°F	ASTM D-287	10.7
FLASH POINT, PMCC, °F	ASTM D-93	180
WATER BY DISTILLATION, % VOL.	ASTM D-95	0.60
SEDIMENT BY EXTRACTION, % WT.	ASTM D-473	0.10
VISCOSITY @ 122°F, S.F.S.	ASTM D-445	81.1
POUR POINT, °F	ASTM D-97	20
SULFUR, % WT.	ASTM D-4294	0.98
ASH, % WT.	ASTM D-482	0.097
CARBON RES., CONRADSON, % WT.	ASTM D-189	10.93
NITROGEN, % WT.	ASTM D-3228	0.24
ASPHALTENES, % WT.	IP-143	2.04
TRACE METALS	A.A.S.	
	ALUMINUM, ppm	105
	SILICON, ppm	73
	SODIUM, ppm	51
	VANADIUM, ppm	33

SGS CONTROL SERVICES INC.

Rick Moore
 Lab Manager

RM/11

Att. 6

SGS
 CO31-8-83

TO ADDRESS TO OTHER THAN THE ISSUING COMPANY: BEHIND THE CURTAIN... NUMBER, DATE AND AMOUNT ON YOUR PAYMENT ADV.

UNOCAL 76

REFER YOUR PAYMENT TO

PO BOX 91946 CHICAGO IL 60693

INVOICE NUMBER	DATE	TRUCK NO.						
11 6313	04/05/88							
CODE	CUSTOMER NUMBER	DIST.	TYPE	01, 02, 03 F.O.B. DESTINATION	OR - F.O.B. SHIPPING POINT	SHIPPING POINT NUMBER	COLL/PPD	DISTRIBUTION CODE
02	01279694	00	02			9090	PPD	017
SHIPPED FROM			COMMON CARRIER			TAMPA FL		

ALCOMA PACKING CO INC
PO BOX 231
LAKE WALES FL 33853

SAME AS "SOLD TO" UNLESS NOTED

NCH 218	UNION ORDER NO. T-7918	ORDER DATE	CUSTOMER ORDER NO. T-7982	CONTRACT NO.	ITEM NO.
---------	------------------------	------------	---------------------------	--------------	----------

QUANTITY ORDERED		NO. OF PACKAGES SHIPPED	TICKET NO. PRODUCT CODE CL DETAIL	DATE	SHIPPED QUANTITY	PRICE	PRODUCT DESCRIPTION	AMOUNT
GROSS GALS. OR O. OF PACKAGES	NET GALS. OR TYPE OF CONTAINER							
	6444		116313 05906 09952022608		6444 6444	ok .3654 .00047	#6 LS RESIDUAL FUEL FLA POLLUTION TAX	2354.64 3.03
RECEIVED APR 14 1988						7870-60 1178.83 7870-50 1178.84	#252 4	

63288102-7218-5402

DATE BILLED 4/11/88

TERMS NO DISCOUNT ON CONTAINERS FREIGHT OR TAXES	IF PAID BY	DEDUCT DISCOUNT	INVOICE TOTAL	2357.67
NET 30 DAYS - DUE	05/04/88			

NOTE: SEE DRUM & PALLET DEPOSIT TERMS ON REVERSE SIDE

STATE OF VIRGINIA LIABILITY FOR VIRGINIA MOTOR FUEL TAX ON GASOLINE ASSUMED BY UNION OIL COMPANY OF CALIFORNIA THIS IS TO CERTIFY THAT UNION OIL COMPANY OF CALIFORNIA HAS UNDERTAKEN TO COMPLY FULLY WITH THE PROVISIONS OF THE FAIR LABOR STANDARDS ACT OF THE UNITED STATES AS TO ALL GOODS LISTED ON THIS INVOICE.

ORIGINAL

FORM 124 97 (REV. 11-85) PRINTED IN U.S.A.

ACKNOWLEDGEMENT: APR 11 1988 DATE 4/15

att. 7A

UNOCAL

REFER YOUR PAYMENT TO

PO BOX 91946 CHICAGO IL 60693

INVOICE NUMBER	DATE	TRUCK NO.
11 6303	04/04/88	

CODE 02	CUSTOMER NUMBER 01279694	DIST. 00	TYPE 02	01, 02, 03 F.O.B. DESTINATION	11	6303	04/04/88	TRUCK NO.
SHIPPED FROM				SHIPPING POINT NUMBER		COLL/PPD		DISTRIBUTION CODE
COMMON CARRIER TAMPA FL				9090		PPD		017

ALCOMA PACKING CO INC
PO BOX 231
LAKE WALES FL 33853

SAME AS "SOLD TO" UNLESS NOTED

BRANCH 7218	UNION ORDER NO. T-7918	ORDER DATE	CUSTOMER ORDER NO. T-7982	CONTRACT NO.	ITEM NO.
-------------	------------------------	------------	---------------------------	--------------	----------

QUANTITY ORDERED		NO. OF PACKAGES SHIPPED	TICKET NO. PRODUCT CODE CL DETAIL	DATE	SHIPPED QUANTITY	PRICE	PRODUCT DESCRIPTION	AMOUNT
GROSS GALS. OR NO. OF PACKAGES	NET GALS. OR TYPE OF CONTAINER							
	6378		116303 05946 09952022608		6378 6378	.30 .00047	#6 HS RESIDUAL FUEL FLA POLLUTION TAX	1913. 3.
RECEIVED APR 1 1988								
RECEIVED APR 1 2 1988								

Handwritten: 4 #246 J

Handwritten: 7870-60 958.20
7870-50 958.20

43288098-7218-5422	DATE BILLED 4/07/88	IF PAID BY	DEDUCT DISCOUNT	INVOICE TOTAL	1916
--------------------	---------------------	------------	-----------------	---------------	------

NOTE: SEE DRUM & PALLET DEPOSIT TERMS ON REVERSE SIDE

STATE OF VIRGINIA
LIABILITY FOR VIRGINIA MOTOR FUEL TAX ON GASOLINE
ASSUMED BY UNION OIL COMPANY OF CALIFORNIA

THIS IS TO CERTIFY THAT UNION OIL COMPANY OF CALIFORNIA HAS UNDERTAKEN TO COMPLY FULLY WITH THE PROVISIONS OF THE FAIR LABOR STANDARDS ACT OF THE UNITED STATES AS TO ALL GOODS LISTED ON THIS INVOICE.

ORIGINAL

att. 7B

10/19/01
Friday

1000 HP BOILER No. 2 (E.U. ID # 004)

EMISSION CALCULATIONS

General

The 1000 HP boiler got burnt out and need to be replaced with a similar boiler.

Parameters

Fuel	Natural Gas
Emergency standby fuel	No. 4 fuel oil, 0.5% S
Operating hours	4000 hours
Maximum hours on oil	240 hours

Potential Emissions

The potential calculations are calculated based on the 4000 operating hours total broken down to 240 hours (10 days) on oil and 3760 hours on natural gas. Oil will be used only if the natural gas supply is interrupted.

Gas Emission Factors

BOILERS	Parameter	Emission Factor	Reference
	Particulates	7.6 #/mmcf	AP42-1.4-1
	Sulfur dioxide	0.6 #/mmcf	AP42-1.4-1
	Nitrogen Oxide	100 #/mmcf	AP42-1.4-1
	Carbon Monoxide	84 #/mmcf	AP42-1.4-1
	VOC	5.5 #/mmcf	AP42-1.4-1

Potential Emissions - Natural Gas

1000 HP Boiler @ 40,500 cfh and @ 3,760 hours/year = 152.3 mmcf

PM: 152.3 mmcf x 7.6 #/mmcf x tons/2000 = 0.58 tons

SO2: 152.3 mmcf x 0.6 #/mmcf x tons/2000 = 0.05 tons

NO: 152.3 mmcf x 100 #/mmcf x tons/2000 = 7.6 tons

CO: 152.3 mmcf x 84 #/mmcf x tons/2000 = 6.4 tons

VOC: 152.3 mmcf x 5.5 #/mmcf x tons/2000 = 0.42 tons

Oil Emission Factors

BOILERS	Parameter	Emission Factor	Reference
	Particulates	7 #/1000 gal	AP42 1.3-1
	SO2	75 #/1000 gal	AP42 1.3-1
	NO	20 # /1000 gal	AP42 1.3-1
	CO	5 #/1000 gal	AP42 1.3-1
	VOC	0.25/1000 gal	AP42 1.3-1

Potential Emissions - No. 4 Oil with 0.5% S

1000 HP Boiler, 270 gallons per hour, @ 240 hours/year = 64,800 gallons of No. 4 Oil with 0.5 % S.

PM: 64,800 gals x 7 #/1,000 gals x tons/2,000 = 0.22t
 SO2: 64,800 gals x 75 #/1,000 gals x tons/2,000 = 2.43t
 NOx 64,800 gals x 20 #/1,000 gals x tons/2,000 = 0.65t
 CO 64,800 gals x 5 #/1,000 gals x tons/2,000 = 0.162t
 VOC 64,800n gals x 0.25 #/1,000 gals x tons/2,000 = 0.01t

Proposed Emission Summary

Parameters	Boilers TPY (4000 Hrs)
PM	0.8
SO2	2.5
NO	8.25
CO	6.6
VOC	0.43