

7/21/87
Meeting investigating
possibility burning MSW

TIMBER ENERGY RESOURCES, INC. - RESOURCE RECOVERY PROJECT

Timber Energy Resources (TER) has built a 200 million Btu/hr boiler at the former Reichhold wood products plant site south of Telogia on Highway 65. The boiler provides steam to a nominal 12 MW turbine generator. The boiler is designed for 27 tph of bark and wood waste. TER has also retained the old wood waste boiler house built in the 1950's by Reichhold.

The company has informed its neighboring county administrators that TER would be interested in converting the plant to burn municipal solid waste (MSW) provided that delivery of 90,000 tpy can be guaranteed. At round-the-clock operation this would provide about 10 tph fuel. This approach has been presented to Jackson, Gadsden, Calhoun, Franklin, Wakulla, Gulf, and Liberty Counties. The site is accessible by rail or highway to each of these. To our knowledge, no county has specifically responded except Gadsden, whose commission voted the week of December 1, 1986 to pursue the idea.

Jackson, Gadsden, and several other counties have received grant funds from the Governor's Energy Office to study a regional solution. We have discussed these plans with TER, each of the counties, and the Apalachee Regional Planning Council. The Jackson study will specifically include TER as a disposal option, and so will a separate study being done by Franklin County. We are actively establishing our role as a catalyst and facilitator, and have met with TER and Jackson County several times.

TER also applied for a Governor's Energy Office grant to study the feasibility of, and perhaps to design, converting either the old or the new plant to solid waste fuel. The grant was not approved.

Technically, it's probably relatively simple to convert a waste wood fueled boiler to a solid waste fuel. TER is now getting cost estimates from the boiler manufacturers. The major new construction will be the solid waste handling facilities, railcar or truck dumping and conveying the fuel to the boiler.

TER's projected need for 90,000 TPY of waste could barely be met in 1987 by the mandatory collection of waste from all residents of Liberty, Calhoun, Gadsden, Franklin, Gulf, and Wakulla counties, encompassing road haulage of up to 46 miles from present landfills. By 1997 it could be met by the same scenario in Liberty, Calhoun, Gadsden, Gulf, and Wakulla counties, up to 42 road miles.

Sperry
Tom Moody's Disk
Timber Energy Resources

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION



Interoffice Memorandum

TO: Ed Middleswart
THRU: Bill Thomas *BT*
FROM: Willard Hanks *Willard Hanks*
DATE: February 11, 1987
SUBJ: Timber Energy Resources

FOR ROUTING TO OTHER THAN THE ADDRESSEE	
TO: _____	LOCTN: _____
TO: _____	LOCTN: _____
TO: _____	LOCTN: _____
FROM: _____	DATE: _____

On January 29, 1985, BAQM issued Timber Energy Resources permit No. AC 39-090091 which authorized the construction of a 230 MMBtu/hr carbonaceous fuel fired boiler equipped with a scrubber. Limits were placed on particulate matter and visible emissions from this source.

The application and Technical Evaluation and Preliminary Determination for this source said that components from an existing boiler would be used on the new source. On February 6, 1987, you notified BAQM that the permittee used new equipment in lieu on the "used" equipment they said would be installed on the new boiler.

BAQM was not informed by the company that they had substituted new equipment for the proposed "used" equipment on this boiler. Provided the new equipment meets the applicable emission standards listed in the specific conditions of the construction permit, it is BAQM's opinion that department permission is not required for this substitution (see definition of modification).

However, we want to emphasize that permit No. AC 39-090091 does not authorize the use or operation of any of the existing equipment unless it is part of the new carbonaceous fuel fired boiler.

WH/ks

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION



Interoffice Memorandum

TO: Victoria J. Tschinkel
FROM: Clair Fancy *CHF*
DATE: October 23, 1986
SUBJ: Modification of Conditions

FOR ROUTING TO OTHER THAN THE ADDRESSEE	
To: _____	LOCTN: _____
To: _____	LOCTN: _____
To: _____	LOCTN: _____
FROM: _____	DATE: _____

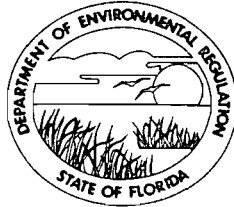
Attached for your approval and signature is a letter that will extend the expiration date of a construction permit issued to Timber Energy Resources, Inc. The extension will allow more time for the permittee to conduct the compliance tests and submit an application for permit to operate this facility.

CHF/WH/s

Attachment: letter

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

October 23, 1986

Mr. Ed Peters
Timber Energy Resources, Inc.
Post Office Box 199
Telogia, Florida 32360

Dear Mr. Peters:

Re: Modification of Conditions - Permit No. AC 39-090091

The department is in receipt of your October 1, 1986, letter requesting the permit to construct a carbonaceous fuel fired boiler be extended to allow time for you to modify the stack, conduct the compliance tests, and submit an application for a permit to operate this source to the department. This request is acceptable and the expiration date of permit No. AC 39-090091 is changed from November 1, 1986 to June 1, 1987.

A copy of this letter must be attached to the referenced construction permit and shall become a part of that permit.

Sincerely,

Victoria J. Tschinkel
Secretary

VJT/ks

cc: T. Moody

attachment

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION



Interoffice Memorandum

10/14
① Patty - log in
② Bill T - please handle

FOR ROUTING TO OTHER THAN THE ADDRESSEE	
To: _____	LOCTN: _____
To: _____	LOCTN: _____
To: _____	LOCTN: _____
FROM: _____	DATE: _____

TO: Clair Fancy, BAQM
FROM: Thomas W. Moody *TW*
DATE: October 9, 1986
SUBJECT: Timber Energy Resources, Inc.

DER
OCT 13 1986
BAQM

Please take the attached letter for action. This was a CAPS permit. We recommend approval.

TWM/tmk

P 408 532 069

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Mr. Ed Peters	
Street and No.	
P.O., State and ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date 10/24/86	

PS Form 3800, Feb. 1982

PS Form 3811, July 1983 447-845

DOMESTIC RETURN RECEIPT

● SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. Show to whom, date and address of delivery.

2. Restricted Delivery.

3. Article Addressed to:
Mr. Ed Peters
Timber Energy Resources, Inc.
P. O. Box 199
Telogia, FL 32360

4. Type of Service: <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail	<input type="checkbox"/> Insured <input type="checkbox"/> COD	Article Number P 408 532 069
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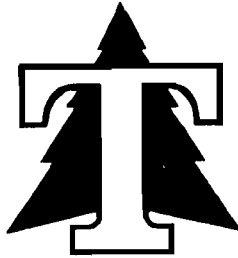
Always obtain signature of addressee or agent and **DATE DELIVERED.**

5. Signature - Addressee
X

6. Signature - Agent
X *K. F. Chester*

7. Date of Delivery
10-25-86

8. Addressee's Address (ONLY if requested and fee paid)



OCT 03 1986

NORTHWEST FLORIDA
DER.

October 1, 1986

Mr. Jack Preece
 Department of Environmental Regulation
 160 Government Center
 Pensacola, Florida 32501-5794

Dear Mr. Preece:

Because of the operational problems we have had with the GE steam turbine, requiring repairs, changes and de-bugging the system, the compliance test has not been run.

Pensacola P.O.C., Inc. is scheduled the 9th of October to run the compliance test. They have notified Sava Varazo in your office of this date.

Our construction permit- AC 39-090091 expiration date is November 30, 1986. Under Specific Conditions, paragraph 11 requires submitting an application for an operating permit 90 days before expiration date of construction permit.

We request an extension of time to submit our operating permit. A Certificate of Completion of Construction will be submitted promptly after results of October 9, 1986 test are received.

Thank you for your cooperation.

Sincerely yours,

Ed Peters

Referred to CAPS.

Recommend approval.

m

EP/sl

cc: D.E. Wentworth
 J.G. Heisler

TIMBER ENERGY RESOURCES, INC.

P.O. BOX 199

• TELOGIA, FLORIDA 32360 •

904/379-8341

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION



Interoffice Memorandum

FOR ROUTING TO OTHER THAN THE ADDRESSEE

To: _____ Locn: _____
To: _____ Locn: _____
To: _____ Locn: _____
From: _____ Date: _____

RECEIVED

JUN 14 1985

TO: Victoria J. Tschinkel
FROM: *J. Albaugh*
for Clair Fancy
DATE: June 14, 1985
SUBJ: Modification of Conditions

Office of the ~~Secretary~~

Attached for your approval and signature is a letter that will extend the expiration date of a construction permit issued to Timber Energy Resources, Inc. This extension will allow time for the applicant to complete construction of the carbonaceous fuel fired boiler.

The Bureau recommends this extension be approved.

CHF/ks

attachment: draft letter

DER

JUN 18 1985

BAQM

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

June 14, 1985

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Mitchell Larkins
Vice President, General Manager
Timber Energy Resources, Inc.
Post Office Box 725
Bristol, Florida 32321

Dear Mr. Larkins:

Re: Modification of Conditions - Permit No. AC 39-090091

The department is in receipt of Mr. Kappler's June 5, 1985, letter requesting the permit to construct No. AC 39-090091 be extended to allow time to complete construction of the carbonaceous fuel fired boiler. The request is acceptable and the expiration date is changed as noted below.

<u>Condition</u>	<u>From</u>	<u>To</u>
Expiration Date	September 30, 1985	November 1, 1986

Attachment to be Incorporated:

5. Timber Energy Resources, Inc. June 5, 1985 letter.

A copy of this letter must be attached to the referenced construction permit and shall become a part of that permit.

Sincerely,


Victoria J. Tschinkel
Secretary

VJT/ks

cc: J. Brown
Gary H. Kappler

attachment: June 5, 1985 letter

No. **0155579**
RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

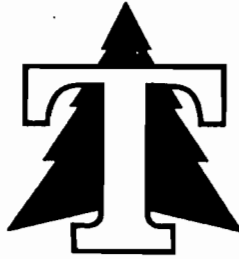
SENT TO		Mr. Mitchell Larkins		
STREET AND NO.				
P.O., STATE AND ZIP CODE				
POSTAGE		\$		
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE		\$	
	SPECIAL DELIVERY		\$	
	RESTRICTED DELIVERY		\$	
	OPTIONAL SERVICES	RETURN RECEIPT SERVICE		\$
		SHOW TO WHOM AND DATE DELIVERED		\$
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY		\$
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY			\$	
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		\$		
TOTAL POSTAGE AND FEES			\$	
POSTMARK OR DATE				
6/19/85				

PS Form 3800, Apr. 1976

PS Form 3811, July 1983

<p>● SENDER: Complete items 1, 2, 3 and 4.</p> <p>Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. <u>The return receipt fee will provide you the name of the person delivered to and the date of delivery.</u> For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.</p>	
<p>1. <input type="checkbox"/> Show to whom, date and address of delivery.</p> <p>2. <input type="checkbox"/> Restricted Delivery.</p>	
<p>3. Article Addressed to:</p> <p>Mr. Mitchell Larkins Timber Energy Resources, Inc. Post Office Box 725 Bristol, Florida 32321</p>	
<p>4. Type of Service:</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail</p>	<p>Article Number</p> <p>0155579</p>
<p>Always obtain signature of addressee or agent and DATE DELIVERED.</p>	
<p>5. Signature — Addressee</p> <p>X</p>	
<p>6. Signature — Agent</p> <p>X: <i>Anita M. Parish</i></p>	
<p>7. Date of Delivery</p>	
<p>8. Addressee's Address (ONLY if requested and fee paid)</p>	

DOMESTIC RETURN RECEIPT



DER
JUN 10 1985
BAQM

June 5, 1985

Mr. C.H. Fancy
Deputy Chief
Bureau of Air Quality Management
Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

Dear Mr. Fancy,

This is to request an extension of the permit granted to Timber Energy Resources, Inc., covering the facility to be constructed by General Electric in Telogia, Liberty County, Florida. The Permit Number is AC 39-090091, with a present expiration date of September, 1985. The construction of this facility will not be completed by this date, and I have attached a letter from General Electric which states their progress to date and their anticipated completion date of July, 1986. It has been brought to my attention that Timber should file for this extension now to avoid any delays as we approach September.

Please review this situation at your earliest convenience, and contact me if any additional information is required. Your assistance will be greatly appreciated.

Sincerely,

Gary H. Kappler
President, Timber Energy Resources, Inc.

TIMBER ENERGY RESOURCES, INC.

5433 WESTHEIMER

• HOUSTON, TEXAS 77056 •

713/621-5018

GENERAL ELECTRIC

APPARATUS AND ENGINEERING SERVICES OPERATIONS
GENERAL ELECTRIC COMPANY • P.O. BOX 10577 • TAMPA, FLORIDA 33679 • (813) 832-1179

May 31, 1985

Freeman, Richardson, Watson & Kelly, P.A.
1200 Barnett Bank Building
Jacksonville, Florida 32202
Attn: Mr. John L. McWilliams, III

Subject: Timber Energy Resources
Telogia Bio-Mass Power Plant

Gentlemen:

In response to your request, I would like to offer the following information concerning the present status of this project.

General Electric began work on February 1st, 1985, following receipt of the initial payment of \$866,000. At this time final negotiations with our major sub-contractor, the McBurney Corporation, were commenced in order to fully release the boiler system for final design and procurement. A detailed project milestone schedule was established to form the basis of progress payments, this was delivered to the customer in mid-March.

The project is on schedule as of this date. Design engineering is approximately 20% complete, orders have been placed for the turbine-generator and the boiler system. Other major components with the longest delivery cycles have been specified, competitively bid, and orders will be placed in early June. These components include, but are not limited to the following: main step-up transformer, main circuit breaker, cooling tower, condenser, switchgear, and various electrical sub-station components. The plant electrical one-line diagram has been finalized and is in compliance with all inputs from Florida Power Corporation regarding the interconnect requirements.

Draw-down against the bond proceeds to-date has been as follows:

<u>Invoice Amount</u>	<u>Date Issued</u>	<u>Status</u>
\$866,000.00	1/85	Paid/2-1-85
134,200.00	4/16/85	Paid
44,300.00	5/07/85	Paid

In general, the project is on schedule for completion in July 1986. Mobilization and commencement of on-site activities will begin during the forth quarter of this year.

GENERAL  ELECTRIC

Mr. John L. McWilliams, III
May 31, 1985
Page Two

I sincerely hope that the above information satisfies your needs. If I can be of any further assistance please do not hesitate to call.

Very truly yours,



Alan P. Johnson

APJ/bsp

cc: C. J. Bailey, Jr.
Timber Energy Resources, Inc.
5433 Westheimer
Houston, TX 77056

W. Fuller
Rotan Mosle, Inc.
1500 S. Tower
Pennzoil Place
Houston, TX 77002

M. G. Thomas
GE/Norcross

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

January 28, 1985

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Mitchell Larkins
Vice President, General Manager
Timber Energy Resources
Post Office Box 725
Bristol, Florida 32321

Dear Mr. Larkins:

Enclosed is Permit Number AC 39-090091 dated January 25, 1985, to Timber Energy Resources issued pursuant to Section 403, Florida Statutes.

Acceptance of this permit constitutes notice and agreement that the department will periodically review this permit for compliance, including site inspections where applicable, and may initiate enforcement actions for violation of the conditions and requirements thereof.

Sincerely,

C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management

CHF/pa

Enclosure

cc: Tom Moody, DER Northwest District
William A. Tomb, Perry Smith Co., Inc.

No. **0155810**
RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

SENT TO Mr. Mitchell Larkins		
STREET AND NO.		
P.O., STATE AND ZIP CODE		
POSTAGE	\$	
CONSULT POSTMASTER FOR FEES OPTIONAL SERVICES RETURN RECEIPT SERVICE	CERTIFIED FEE	\$
	SPECIAL DELIVERY	\$
	RESTRICTED DELIVERY	\$
	SHOW TO WHOM AND DATE DELIVERED	\$
	SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	\$
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	\$	
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	\$	
TOTAL POSTAGE AND FEES	\$	
POSTMARK OR DATE 1/29/85		

PS Form 3800, Apr. 1976

PS Form 3811, Jan. 1979

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL.

SENDER: Complete items 1, 2, and 3. Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)
 Show to whom and date delivered.....¢
 Show to whom, date and address of delivery.....¢
 RESTRICTED DELIVERY
 Show to whom and date delivered.....¢
 RESTRICTED DELIVERY.
 Show to whom, date, and address of delivery.\$

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
Mr. Mitchell Larkins
P. O. Box 725
Bristol, FL 32321

3. ARTICLE DESCRIPTION:
 REGISTERED NO. CERTIFIED NO. INSURED NO.
 0155810

(Always obtain signature of addressee or agent)

I have received the article described above.
 SIGNATURE Addressee Authorized agent
Allen W. [Signature]

4. DATE OF DELIVERY **1-30-85**

5. ADDRESS (Complete only if registered)

6. UNABLE TO DELIVER BECAUSE:

CLERK'S INITIALS

POSTMARK: TALLAHASSEE, FLA., JAN 31 1985

STARBUCKS

☆GPO : 1979-300-459

Final Determination

Timber Energy Resources

Carbonaceous Fuel Fired Boiler
Telogia, Liberty County, Florida

Permit Number
AC 39-090091

Florida Department of Environmental Regulation
Bureau of Air Quality Management
Central Air Permitting

January 25, 1985

Final Determination
Timber Energy Resources
Permit No. AC 39-090091

Timber Energy Resources' application for permit to construct a 230 million Btu per hour carbonaceous fuel boiler at an existing plant site in Telogia, Liberty County, Florida, has been reviewed by the Bureau of Air Quality Management. Public notice of the department's intent to issue was published in the Liberty Journal on November 28, December 5, and December 12, 1984. Copies of the preliminary determination were available for public inspection at the department's Pensacola and Tallahassee offices.

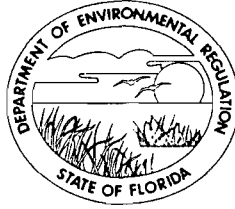
There were no letters of response to the public notice.

The final action of the department will be to issue the permit (AC 39-090091) as noticed in the review process.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Timber Energy Resources
P. O. Box 725
Highway 20
Bristol, Florida 32321

Permit Number: AC 39-090091
Expiration Date: Sept. 30, 1985
County: Liberty
Latitude/Longitude: 30° 20' 17" N/
84° 49' 20" W
Project: 230 MMBtu/hr Bark/Wood
Boiler

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

For the construction of a carbonaceous fuel, bark and waste wood, fired boiler with a heat input capacity of 230 million Btu per hour at Telogia, in Liberty County, Florida.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, specific conditions.

Attachments:

1. Application to Construct Air Pollution Sources, DER Form 17-1.122(16), received on April 18, 1984.
2. Additional information from Perry Smith Co., received on July 20, 1984.
3. The letter from Mr. Mitchell Larkins, received on August 6, 1984.
4. The letter from Mr. Mitchell Larkins, received on November 13, 1984.

PERMITTEE:
Timber Energy Resources

I. D. Number:
Permit Number:AC 39-090091
Date of Issue:
Expiration Date: Sept. 30, 1985

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

PERMITTEE:
Timber Energy Resources

I. D. Number:
Permit Number: AC 39-090091
Date of Issue:
Expiration Date: Sept. 30, 1985

GENERAL CONDITIONS:

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

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

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

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

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

PERMITTEE:
Timber Energy Resources

I. D. Number:
Permit Number: AC 39-090091
Date of Issue:
Expiration Date: Sept. 30, 1985

GENERAL CONDITIONS:

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

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

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:

Timber Energy Resources

Permit Number: AC 39-090091

Expiration Date: Sept. 30, 1985

GENERAL CONDITIONS:

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

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

SPECIFIC CONDITIONS:

1. The subject boiler is allowed to be operated up to 24 hours per day, 7 days per week, 50 weeks per year, or 8,400 hours per year.
2. The boiler is only allowed to burn bark and waste wood. No fossil fuel shall be fired in the boiler.
3. The maximum allowable heat input of the boiler is 230 million Btu per hour (MMBtu/hr).

PERMITTEE:

Timber Energy Resources

Permit Number: AC 39-090091

Expiration Date: Sept. 30, 1985

SPECIFIC CONDITIONS:

4. The venturi scrubber and separator shall maintain proper pressure drops in order to keep high efficiency. The minimum pressure drops in the scrubber and the separator for compliance shall be determined in the compliance test. The operating permit shall address the minimum pressure drops as a specific condition. Continuous records of pressure drops shall be kept for state agency's inspection.
5. The allowable particulate emission limit from the boiler is 0.20 lb/MMBtu. EPA Method 5 shall be used for the compliance test conducted by the permittee. The heat input may be determined by either an energy balance or the F factor.
6. The allowable visible emissions from the boiler are 30% opacity except that 40% opacity is permissible for not more than two minutes in any one hour. DER Method 9 (17-2.700(6)(a)9, FAC) shall be used for the compliance test conducted by the permittee.
7. The fugitive dust emissions from the bottom dry ash and multiclone dry ash handling areas shall be properly controlled. Opacity in these areas shall not exceed 5%.
8. Reasonable precautions to prevent fugitive particulate emissions during construction, such as coating or spraying roads and the construction site, shall be taken by the permittee.
9. The compliance tests shall be conducted within 10 percent of the maximum heat input of 230 MMBtu/hr.
10. A complete operation and maintenance plan to minimize NO_x, CO, and VOC emissions shall be submitted to the Northwest District with the Certificate of Completion of Construction as required by Rule 17-2.650(2)(g), FAC.
11. The permittee shall demonstrate compliance with the conditions of this construction permit and submit a complete application for an operating permit to the Northwest District prior to 90 days before the expiration date of this permit. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration or until issuance of an operating permit.


PERMITTEE:
Timber Energy Resources

Permit Number: AC 39-090091
Expiration Date: Sept. 30, 1985

SPECIFIC CONDITIONS:

Issued this 25 day of January, 1985

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION



VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

For Routing To District Offices And/Or To Other Than The Addressee		
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
From: _____	Date: _____	
Reply Optional []	Reply Required []	Info. Only []
Date Due: _____	Date Due: _____	

TO: Victoria J. Tschinkel
FROM: Clair Fancy *[Signature]*
DATE: January 24, 1985
SUBJ: Approval and Signature of an Air Construction Permit

Attached is the Final Determination and Air Construction Permit No. AC 39-090091 for a carbonaceous fuel fired boiler for Timber Energy Resources. Day 90, after which the permit would be issued by default, is February 13, 1985.

The Bureau recommends your approval and signature.

CHF/WH/s

attachment

RECEIVED
JAN 25 1985
Office of the Secretary

Liberty Journal

TERESA EUBANKS
Editor

JOHNNY EUBANKS
Publisher

P. O. Box 536
Bristol, Florida 32321
Phone (904) 643-2660

AFFIDAVIT OF PUBLICATION

Liberty Journal

A Weekly Newspaper Published In Bristol,

Liberty County, Florida.

RECEIVED

JAN 14 1985

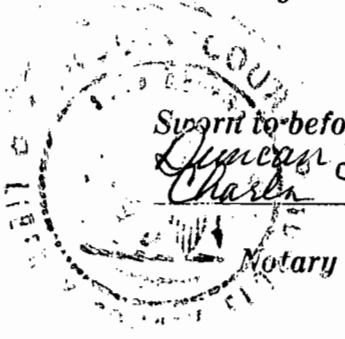
WEST FLORIDA
DER

RE: Department of Environmental Regulation

Before me, the undersigned authority, personally appeared, Johnny Eubanks, Publisher of the Liberty Journal, a weekly newspaper published in Bristol, Liberty County, Florida, and having published once a week since February 4, 1981, and that the attached notice was published for Three (3) consecutive weeks in the Liberty Journal, published as foresaid beginning with the issue of December 5, 1984

Other issues of said advertisement were: December 12 and December 28, 1984

Johnny Eubanks
Johnny Eubanks, Publisher



Sworn to before me this 3rd day of January, 1985
Charles Hearse, D.C.
Notary

DER
JAN 16 1985
BAQM

Legal Notices

FICTITIOUS NAME AFFIDAVIT

CIRCUIT COURT
SECOND JUDICIAL CIRCUIT OF FLORIDA
LIBERTY COUNTY
CIVIL DIVISION

FICTITIOUS NAME AFFIDAVIT

Personally appeared before me, the undersigned authority, duly qualified to administer oaths the following named person(s), each being duly sworn says:

That pursuant to the provisions of Florida Statutes, Chapter 865.09 (1975), and notice by publication previously given as per attached proof thereof, that affiants are engaged in the business or profession, doing business under the fictitious name of J & N, INC. at BRISTOL, LIBERTY County, Florida.

That the name of the person or persons interested in said business or profession and the extent of the interest of each are as follows:

Name, Jack Summers; Interest, 50%; Address, Rt. 1 Box 378, Bristol, Florida 32321.

Name, Naomi Summers; Interest, 50%; Address, Rt. 1, Box 378, Bristol, FL 32321.

SIGNED: Jack E. Summers

SIGNED: Naomi Summers

Sworn to and subscribed before me this 27th day of April, 1984.

Signed: Lester Summers, Notary Public

12-12

SEALED BIDS

Notice is hereby given that sealed bids will be received by the School Board of Liberty County in the Courthouse in Bristol until 7:30 p.m. on December 11, 1984, for the sale of the following items: **Year - 1969, Trade Name - Chevrolet, Body Style - Truck, Serial No. - CS149A858797;** and **Year - 1973, Trade Name - Chevrolet, Body Style - Truck, Serial No. - CCY143F405754.**

The vehicles may be inspected at the bus barn between the hours of 8 a.m. and 4 p.m.

Bids will be opened by the school board in official session

on December 11, 1984, at 7:30 p.m. The successful bidder will pay in full and take possession of the property within ten (10) days. The School Board of Liberty County reserves the right to reject any or all bids with or without cause. Bids will not be valid unless sealed in an envelope and marked "SEALED BID" and identified by the name of the property and date and time of bid opening.

Jerry M. Johnson
Superintendent

1-12

LEGAL NOTICE

State of Florida
Department of Environmental Regulation
Notice of Proposed Agency Action
on Permit Application

The Department of Environmental Regulation gives notice of its intent to issue a permit to Timber Energy Resources to construct a 230 million Btu per hour carbonaceous fuel, bark and waste wood fired boiler at Timber Energy Resources' existing site on Highway 65 South in Telogia, Liberty County, Florida. A determination of best available control technology (BACT) was not required.

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32301, within fourteen (14) days of publication of this notice. Failure to file a request for hearing within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this preliminary statement. Therefore, persons who may not object to the proposed agency action may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Model Rule 28-5.207 at least five (5) days before the final hearing and be filed with the hearing officer if one has been assigned at the Division of Administrative Hearings, Department of Administration, 2009, Apalachee Parkway, Tallahassee, Florida 32301. If no hearing officer has been assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32301. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes.

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Dept. of Environmental Regulation
Northwest District
160 Governmental Center
Pensacola, Florida 32501
Dept. of Environmental Regulation

Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, Florida 32301

Any person may send written comments on the proposed action to Mr. Bill Thomas at the department's Tallahassee address. All comments mailed within 30 days of the publication of this notice will be considered in the department's final determination.

LEGAL NOTICES

Sealed Bids

Notice is hereby given that sealed bids will be received by the Liberty County Board of County Commissioners in the Courthouse in Bristol, Florida, until 5 p.m., on Tuesday, December 4, 1984, for the following:

Install and supply chain-link fence 130 feet, one double gate and post. To be installed behind the Courthouse and Jail.

The bids will be opened at the Regular County Commissioners Meeting, December 4, 1984 at 7 p.m. in the Courtroom.

All bids are subject to rejection by the Board and shall be subject to being determined to be in the best interest of Liberty County.

Joe Burke, Chairman

Duncan Hosford, Clerk to
The Board of County Commissioners

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Notice is hereby given that sealed bids will be received by the Liberty County Board of County Commissioners in the Courthouse in Bristol, Florida, until 5 p.m., on Tuesday, December 4, 1984, for the following:

USED DOORS

- 2 - 30x68 solid
- 2 - 30x68 4-light
- 2 - 30x68 half glass

The door's may be seen at the Courthouse. Come to the Clerks Office.

The bids will be opened at the Regular County Commissioners Meeting, December 4, 1984 at 7 p.m. in the Courtroom.

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Joe Burke, Chairman

Duncan Hosford
Clerk to the Board of
County Commissioners

LEGAL NOTICE

State of Florida
Department of Environmental Regulation
Notice of Proposed Agency Action
on Permit Application

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Duncan Hosford
Clerk to the Board of
County Commissioners

LEGAL NOTICE

State of Florida
Department of Environmental Regulation
Notice of Proposed Agency Action
on Permit Application

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Northwest District
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Dept. of Environmental Regulation

Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, Florida 32301

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STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

November 21, 1984

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Mitchell Larkins
Vice President, General Manager
Timber Energy Resources
P. O. Box 725
Highway 20
Bristol, Florida 32321

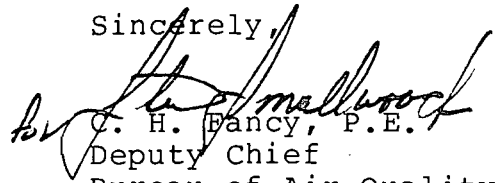
Dear Mr. Larkins:

Attached is one copy of the Technical Evaluation and Preliminary Determination, and proposed permit to construct a carbonaceous fuel fired boiler at your existing facility in Telogia, Liberty County, Florida.

Before final action can be taken on your draft permit, you are required by Florida Administrative Code Rule 17-103.150 to publish the attached Notice of Proposed Agency Action in the legal advertising section of a newspaper of general circulation in Liberty County no later than fourteen days after receipt of this letter. The department must be provided with proof of publication within seven days of the date the notice is published. Failure to publish the notice may be grounds for denial of the permit.

Please submit, in writing, any comments which you wish to have considered concerning the department's proposed action to Mr. Bill Thomas of the Bureau of Air Quality Management.

Sincerely,


C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management

CHF/WH/ks
Attachments

cc: William A. Tomb, Perry Smith Company, Inc.
Tom Moody, DER NW District

No. **0155778**
RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

SENT TO Mr. Mitchell Larkins		
STREET AND NO.		
P.O., STATE AND ZIP CODE		
POSTAGE	\$	
CONSULT POSTMASTER FOR FEES OPTIONAL SERVICES	CERTIFIED FEE	\$
	SPECIAL DELIVERY	\$
	RESTRICTED DELIVERY	\$
	RETURN RECEIPT SERVICE	\$
	SHOW TO WHOM AND DATE DELIVERED	\$
	SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	\$
	SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	\$
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	\$	
TOTAL POSTAGE AND FEES	\$	
POSTMARK OR DATE 11/20/84		

PS Form 3800, Apr. 1976

PS Form 3811, Jan. 1978

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

SENDER: Complete items 1, 2, and 3. Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)
 Show to whom and date delivered. \$
 Show to whom, date and address of delivery. \$
 RESTRICTED DELIVERY
 Show to whom and date delivered. \$
 RESTRICTED DELIVERY.
 Show to whom, date, and address of delivery. \$

(CONSULT POSTMASTER FOR FEES)

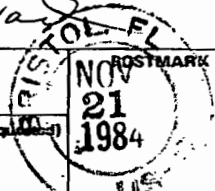
2. ARTICLE ADDRESSED TO:
Mr. Mitchell Larkins
P. O. Box 725
Bristol, FL 32321

3. ARTICLE DESCRIPTION:
 REGISTERED NO. | CERTIFIED NO. | INSURED NO.
 | 0155778 | |

(Always obtain signature of addressee or agent)

I have received the article described above.
 SIGNATURE Addressee Authorized agent
Allen Woodward

4. DATE OF DELIVERY
11-21-84

5. ADDRESS (Complete only if registered)


6. UNABLE TO DELIVER BECAUSE: _____

CLERK'S INITIALS
JK

☆ GPO - 1979-300-459

Preliminary Determination
and
Technical Evaluation

Timber Energy Resources
Carbonaceous Fuel Fired Boiler

Liberty County, Florida

Permit Number
AC 39-090091

Florida Department of Environmental Regulation
Bureau of Air Quality Management
Central Air Permitting

November 21, 1984

State of Florida
Department of Environmental Regulation
Notice of Proposed Agency Action
on Permit Application

The Department gives notice of its intent to issue a permit to Timber Energy Resources to construct a 230 million Btu per hour carbonaceous fuel, bark, and waste wood fired boiler at Timber Energy Resources' existing site on Highway 65 South in Telogia, Liberty County, Florida. A determination of Best Available Control Technology (BACT) was not required.

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32301, within fourteen (14) days of publication of this notice. Failure to file a request for hearing within this time period shall constitute a waiver any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

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The application, technical evaluation, and Department's intent for the proposed project are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the following locations:

Dept. of Environmental Regulation
NW District
160 Governmental Center
Pensacola, Florida 32501

Dept. of Environmental
Regulation
Bureau of Air Quality
Management
2600 Blair Stone Road
Tallahassee, Florida 32301

Any person may send written comments on the proposed action to Mr. Clair Fancy at the Department's Tallahassee address. All comments mailed within 14 days of the publication of this notice will be considered in the Department's final determination.

I. Applicant and Source Location

A. Applicant

Timber Energy Resources
P. O. Box 725
Highway 20
Bristol, Florida 32321

B. Source Location

The proposed construction will occur at Timber Energy Resources' existing site located in Telogia, Liberty County, Florida. The UTM coordinates are: Zone 16, 709.4 km east and 3358.1 km north.

II. Project Description

The proposed project is for the construction of a carbonaceous fuel boiler with a maximum 230 million Btu per hour heat input. Bark and waste wood will be the only fuels fired in the boiler; no fossil fuel will be fired in the boiler. The existing grates, wood feeder system, forced draft fans and overfire air fan from an existing boiler that is being replaced will be retained and used with the proposed boiler. Particulate pollution control will be handled by a modified multiclone dust collector, a new venturi scrubber, and a vertical separator. A new induced draft fan will be added to produce the required pressure drop in the flue gas train.

III. Air Pollutant Emissions

The major air pollutant from the bark boiler is particulate matter (PM). The company proposes to use a multiclone followed by a venturi scrubber for PM emission control. The stated efficiencies are 80 percent and 90 percent for the multiclone and venturi scrubber, respectively. The maximum PM emission from the new source will be 46 pounds per hour and 193 tons per year. The boiler will also emit 242 TPY of nitrogen oxides and carbon monoxide. These pollutants will be controlled by good operation practices.

IV. Rule Applicability

The proposed project is subject to preconstruction review under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code (FAC).

The new boiler will be a major source in a minor existing facility located in an attainment area for all the pollutants. According to Rule 17-2.500(2)(d), the facility will not belong to any of the facility categories listed in Table 500-1, Major Facility Categories. Therefore, the project is not subject

to the provisions of Rule 17-2.500, Prevention of Significant Deterioration (PSD). The new boiler is subject to Rule 17-2.600(10)(b), the emission limiting and performance standards for new carbonaceous fuel burning equipment. The regulated PM emission limit is 0.2 pound per million Btu of heat input of carbonaceous fuel, and the limit for visible emissions is 30% opacity. However, this boiler may be required to comply with federal regulations Subpart Db - Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. The proposed rule was published in the June 19, 1984, issue of the Federal Register.

V. Conclusion

Based on an evaluation of the application and additional information, the department believes that compliance with applicable state air pollution regulations will be achieved provided certain specific conditions are met.

The general and specific conditions are listed in the attached draft state permit (AC 39-090091).

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of an)
Application for Permit by:)
)
Timber Energy Resources) DER File No. AC 39-090091
Post Office Box 725)
Bristol, Florida 32321)
)

INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its Intent to Issue, and proposed order of issuance for, a permit pursuant to Chapter 403, Florida Statutes, for the proposed project as detailed in the application specified above. The Department is issuing this Intent to Issue for the reasons stated in the attached Technical Evaluation and Preliminary Determination.

The applicant, Timber Energy Resources, applied on July 16, 1984, to the Department of Environmental Regulation for a permit to construct a carbonaceous fuel fired boiler at its existing facility in Telogia, Liberty County, Florida.

The Department has permitting jurisdiction under Chapter 403, Florida Statutes and Florida Administrative Code Rules 17-2 and 17-4. The project is not exempt from permitting procedures. The applicant was officially notified by the Department that an air construction permit was required for the proposed work.

This intent to issue shall be placed before the Secretary for final action unless an appropriate petition for a hearing pursuant to the provisions of Section 120.57, Florida Statutes, is filed within fourteen (14) days from receipt of this letter or

publication of the public notice (copy attached) required pursuant to Rule 17-103.150, Florida Administrative Code, whichever occurs first. The petition must comply with the requirements of Section 17-103.155 and Rule 28-5.201, Florida Administrative Code (copy attached) and be filed pursuant to Rule 17-103.155(1) in the Office of General Counsel of the Department of Environmental Regulation at 2600 Blair Stone Road, Tallahassee, Florida 32301.

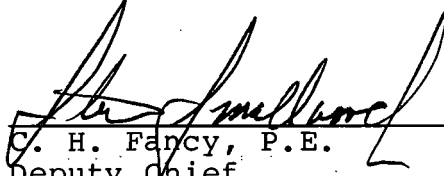
Petitions which are not filed in accordance with the above provisions are subject to dismissal by the Department. In the event a formal hearing is conducted pursuant to Section 120.57(1), all parties shall have opportunity to respond, to present evidence and argument on all issues involved, to conduct cross-examination of witness and submit rebuttal evidence, to submit proposed findings of facts and orders, to file exception to any order or hearing officer's recommended order, and to be represented by counsel. If an informal hearing is requested, the agency, in accordance with its rules of procedure, will provide affected persons or parties or their counsel an opportunity, at a convenient time and place, to present to the agency or hearing officer, written or oral evidence in opposition to the agency's action or refusal to act, or a written statement challenging the grounds upon which the agency has chosen to justify its action or inaction, pursuant to Section 120.57(2), Florida Statutes.

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Executed the 20th day of November, 1984, in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

For 
C. H. Farcy, P.E.
Deputy Chief
Bureau of Air Quality
Management

Copies furnished to:

Mr. Mitchell Larkins, Timber Energy Resources
Mr. William A. Tomb, Perry Smith Company, Inc.
Mr. Tom Moody DER NE District

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Timber Energy Resources
P. O. Box 725
Highway 20
Bristol, Florida 32321

Permit Number: AC 39-090091
Expiration Date: Sept. 30, 1985
County: Liberty
Latitude/Longitude: 30° 20' 17" N/
84° 49' 20" W
Project: 230 MMBtu/hr Bark/Wood
Boiler

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

For the construction of a carbonaceous fuel, bark and waste wood,
fired boiler with a heat input capacity of 230 million Btu per
hour at Telogia, in Liberty County, Florida.

Construction shall be in accordance with the attached permit
application and additional information except as otherwise noted on
pages 5 and 6, specific conditions.

Attachments:

1. Application to Construct Air Pollution Sources, DER Form
17-1.122(16), received on April 18, 1984.
2. Additional information from Perry Smith Co., received on
July 20, 1984.
3. The letter from Mr. Mitchell Larkins, received on August 6,
1984.
4. The letter from Mr. Mitchell Larkins, received on November 13,
1984.

PERMITTEE:
Timber Energy Resources

I. D. Number:
Permit Number: AC 39-090091
Date of Issue:
Expiration Date: Sept. 30, 1985

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

PERMITTEE:
Timber Energy Resources

I. D. Number:
Permit Number: AC 39-090091
Date of Issue:
Expiration Date: Sept. 30, 1985

GENERAL CONDITIONS:

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

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

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

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

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

PERMITTEE:
Timber Energy Resources

I. D. Number:
Permit Number: AC 39-090091
Date of Issue:
Expiration Date: Sept. 30, 1985

GENERAL CONDITIONS:

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

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

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:

Timber Energy Resources

Permit Number: AC 39-090091

Expiration Date: Sept. 30, 1985

GENERAL CONDITIONS:

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

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

SPECIFIC CONDITIONS:

1. The subject boiler is allowed to be operated up to 24 hours per day, 7 days per week, 50 weeks per year, or 8,400 hours per year.
2. The boiler is only allowed to burn bark and waste wood. No fossil fuel shall be fired in the boiler.
3. The maximum allowable heat input of the boiler is 230 million Btu per hour (MMBtu/hr).

PERMITTEE:

Timber Energy Resources

Permit Number: AC 39-090091

Expiration Date: Sept. 30, 1985

SPECIFIC CONDITIONS:

4. The venturi scrubber and separator shall maintain proper pressure drops in order to keep high efficiency. The minimum pressure drops in the scrubber and the separator for compliance shall be determined in the compliance test. The operating permit shall address the minimum pressure drops as a specific condition. Continuous records of pressure drops shall be kept for state agency's inspection.
5. The allowable particulate emission limit from the boiler is 0.20 lb/MMBtu. EPA Method 5 shall be used for the compliance test conducted by the permittee. The heat input may be determined by either an energy balance or the F factor.
6. The allowable visible emissions from the boiler are 30% opacity except that 40% opacity is permissible for not more than two minutes in any one hour. DER Method 9 (17-2.700(6)(a)9, FAC) shall be used for the compliance test conducted by the permittee.
7. The fugitive dust emissions from the bottom dry ash and multiclone dry ash handling areas shall be properly controlled. Opacity in these areas shall not exceed 5%.
8. Reasonable precautions to prevent fugitive particulate emissions during construction, such as coating or spraying roads and the construction site, shall be taken by the permittee.
9. The compliance tests shall be conducted within 10 percent of the maximum heat input of 230 MMBtu/hr.
10. A complete operation and maintenance plan to minimize NO_x, CO, and VOC emissions shall be submitted to the Northwest District with the Certificate of Completion of Construction as required by Rule 17-2.650(2)(g), FAC.
11. The permittee shall demonstrate compliance with the conditions of this construction permit and submit a complete application for an operating permit to the Northwest District prior to 90 days before the expiration date of this permit. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration or until issuance of an operating permit.

PERMITTEE:
Timber Energy Resources

Permit Number: AC 39-090091
Expiration Date: Sept. 30, 1985

SPECIFIC CONDITIONS:

Issued this ___ day of _____, 1983

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

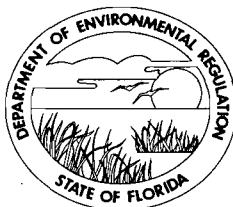
VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

November 13, 1984

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Mitchell Larkins
Vice President, General Manager
Timber Energy Resources
Post Office Box 725
Highway 20
Bristol, Florida 32321

Permit not mailed

Dear Mr. Larkins:

Enclosed is Permit Number AC 39-090091, dated November 8, 1984, to Timber Energy Resources issued pursuant to Section 403, Florida Statutes.

Acceptance of this permit constitutes notice and agreement that the department will periodically review this permit for compliance, including site inspections where applicable, and may initiate enforcement actions for violation of the conditions and requirements thereof.

Sincerely,

C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management

CHF/pa

Enclosure

cc: William A. Tomb, Perry Smith Company, Inc.
Tom Moody, DER Northwest District

Final Determination

Timber Energy Resources
Carbonaceous Fuel Fired Boiler

Liberty County, Florida

Permit Number
AC 39-090091

Florida Department of Environmental Regulation
Bureau of Air Quality Management
Central Air Permitting

November 5, 1984

Final Determination
Timber Energy Resources
AC 39-090091

Timber Energy Resources' permit application for the construction of a carbonaceous fuel boiler at the company's existing plant site in Bristol, Florida has been reviewed by the Bureau of Air Quality Management. Public notice of the department's intent to issue has been published in the Liberty Journal on October 3, 10, and 17, 1984. Copies of the preliminary determination were available for public inspection at DER's Northwest District in Pensacola and the Bureau of Air Quality Management in Tallahassee.

There were no letters of response as a result of the public notice period.

The final action of the department will be to issue the permit (AC 39-090091) as noticed in the review process.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Timber Energy Resources
P. O. Box 725
Highway 20
Bristol, Florida 32321

Permit Number: AC 39-090091
Date of Issue:
Expiration Date: September 30, 1985
County: Liberty
Latitude/Longitude: 30° 20' 17"N/
84° 49' 20"W
Project: 129 MMBtu/hr Bark/Wood
Boiler

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

For the construction of a carbonaceous fuel, bark and waste wood, fired boiler with a heat input capacity of 129 million Btu per hour at Telogia, in Liberty County, Florida.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, specific conditions.

Attachments:

1. Application to Construct Air Pollution Sources, DER Form 17-1.122(16), received on April 18, 1984.
2. Additional information from Perry Smith Co., received on July 20, 1984.
3. The letter from Mr. Mitchell Larkins, received on August 6, 1984.

PERMITTEE:
Timber Energy Resources

I. D. Number:
Permit Number:AC 39-090091
Date of Issue:
Expiration Date: Sept. 30, 1985

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

PERMITTEE:
Timber Energy Resources

I. D. Number:
Permit Number: AC 39-090091
Date of Issue:
Expiration Date: Sept. 30, 1985

GENERAL CONDITIONS:

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

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

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

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

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

PERMITTEE:
Timber Energy Resources

I. D. Number:
Permit Number: AC 39-090091
Date of Issue:
Expiration Date: Sept. 30, 1985

GENERAL CONDITIONS:

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

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

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
Timber Energy Resources

I. D. Number:
Permit Number: AC 39-090091
Date of Issue:
Expiration Date: Sept. 30, 1985

GENERAL CONDITIONS:

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

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

SPECIFIC CONDITIONS:

1. The subject boiler is allowed to operate up to 24 hours per day, 7 days per week, 50 weeks per year, or 8,400 hours per year.
2. The boiler is only allowed to burn bark and waste wood. No fossil fuel shall be fired in the boiler.
3. The allowable heat input of the boiler is 129 million Btu per hour.

PERMITTEE:
Timber Energy Resources

I. D. Number:
Permit Number: AC 39-090091
Date of Issue:
Expiration Date: Sept. 30, 1985

SPECIFIC CONDITIONS:

4. The venturi scrubber and separator shall maintain proper pressure drops in order to keep high efficiency. The minimum pressure drops in the scrubber and the separator for compliance shall be determined in the compliance test. The operating permit shall address the minimum pressure drops as a specific condition. Continuous records of pressure drops shall be kept for state agency's inspection.
5. The allowable particulate emission limit from the boiler is 0.2 lb/MMBtu. EPA Method 5 shall be used for the compliance test conducted by the permittee.
6. The allowable visible emissions from the boiler are 30% opacity except that 40% opacity is permissible for not more than two minutes in any one hour. DER Method 9 (17-2.700(b)(a)9, FAC) shall be used for the compliance test conducted by the permittee.
7. The fugitive dust emissions from the bottom dry ash and multiclone dry ash handling areas shall be properly controlled. Opacity in these areas shall not exceed 5%.
8. Reasonable precautions to prevent fugitive particulate emissions during construction, such as coating or spraying roads and the construction site, shall be taken by the permittee.
9. The compliance tests shall be conducted within 10 percent of the maximum heat input of 129 MMBtu/hr.
10. A complete operation and maintenance plan shall be submitted to the Northwest District with the certificate of completion of construction as required by Rule 17-2.650(2)(g), FAC.
11. The permittee shall demonstrate compliance with the conditions of this construction permit and submit a complete application for an operating permit to the Northwest District prior to 90 days before the expiration date of this permit. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration or until issuance of an operating permit.

PERMITTEE:
Timber Energy Sources

Permit Number: AC 39-09001
Date of Issue:
Expiration Date: Sept. 30, 1985

SPECIFIC CONDITIONS:

Issued this 8 day of Nov, 1987.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION



VICTORIA J. TSCHINKEL, Secretary

_____ pages attached.

DER

NOV 9 1984

State of Florida


DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

BAQM

For Routing To District Offices And/Or To Other Than The Addressee		
To: <u>Clair Fancy</u>	Loctn.:	
To:	Loctn.:	
To:	Loctn.:	
From: <u>Uchi</u>	Date:	<u>11/8</u>
Reply Optional []	Reply Required []	Info. Only []
Date Due:	Date Due:	

TO: Victoria J. Tschinkel

FROM: Clair Fancy 

DATE: November 5, 1984

SUBJ: Approval of Attached Air Construction Permit

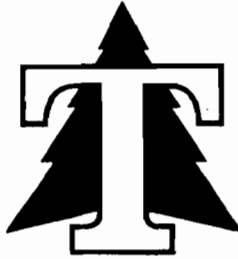
Attached for your approval and signature is one Air Construction Permit for Timber Energy Resources. The permit is for the construction of a carbonaceous fuel fired boiler at the company's existing facility in Bristol, ~~Calhoun~~ Liberty County, Florida.

Day 90, after which the permit would be issued by default, is December 22, 1984.

The Bureau recommends your approval and signature.

CF/pa

Attachments



NOV 13 1984

November 13, 1984

Mr. Larry George
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301-8241

Dear Sir,

This is a request to amend the construction permit, number AC 39-090091, for Timber Energy Resources, Inc. at Telogia, Florida, from 128.92 MBTU/HR to 229.8 MBTU/HR. The fuel mixture will be bark and wood waste with a heating capacity of 4500 BTU/LB. The analysis of the fuel will be the same. The expected boiler performance fuel flow will be 50,787 LB/HR. The heat input will be 229.8 MBTU/HR. The boiler efficiency will be 68%. The boiler will be provided with a horizontal venturi type wet particulate scrubber. Particulate emissions from the scrubber are guaranteed to meet the requirements of Florida (0.2 #/MMBTU).

Sincerely,

Mitchell Larkins
Vice-President, General Manager
Timber Energy Resources, Inc.

ML/amp

Attachments

Section II

DESIGN CONDITIONS AND PLANT PERFORMANCE

The performance of the plant is predicated upon Timber Energy Resources, Inc. providing hogged wood residue of sufficient quantity and quality, delivered to the loading hopper with the following characteristics:

Ultimate Analysis of Fuel

Fuel	Approximate Percent by Weight
Ash	0.36
Sulphur	0.00
Hydrogen	3.55
Carbon	27.90
Nitrogen	0.00
Oxygen	18.19
Water	50.00
Total	100.00
BTU/LB, as fired	4500.00

Expected Boiler Performance

Fuel flow LB/HR	50,787	-	24,834
Heat input MBTU/HR	229.8	-	2892
Boiler efficiency	68%		

Operating Conditions

Plant output at full condensing (net)	11,480 KW
Atmospheric dry bulb temperature of	80° F
Atmospheric wet bulb temperature of	78° F
Atmospheric pressure-PSIG	14.7
Turbine Exhaust Pressure in HgA	2.5
Power Factor	.85

3 X

Assumed Water Analysis

	PPM
Calcium (Ca CO ₃)	163
Sodium	51
Total Cations	214
Bicarbonates	145
Sulfates	41
Chlorides	28
Total Anions	214
Total Hardness	163
Alkalinity	145
PH	7.8
Silicates	0.0

Generator output will be between 10,750 KW and 12,725 KW, depending on the extraction load. Auxiliary plant loads are estimated to be 1,245 KW averaged over a 24 hour period while the plant is operating at full condensing load (no extraction to process). Based on these figures and the numbers presented above, the guaranteed plant output will be 11,480 KW averaged over a 24 hours period, full condensing load. This output may change if the plant auxiliary loads are altered during final engineering and detailed design. The overall heat balance for the plant is shown on drawing M200 Rev.

In order to verify guaranteed output, the plant will be operated at full load for 24 hours duration. The resulting kilowatt output will be averaged for the 24 hour period. This test will be performed within 30 days of completion of the Contract Period.

As quoted, the plant will meet the existing Florida DER environmental regulations. The Contractor is not liable for added costs resulting from changes in Florida DER regulations imposed after September 1, 1984.

PLANT OPERATION UNDER CONDITIONS OTHER THAN THOSE SPECIFIED ABOVE WILL CAUSE PLANT OUTPUT, HEAT RATE, AND PRICE, TO VARY.

access door, poke hole and rotary seal feeder with high temperature seals. Each rotary valve is provided with a stop motion detector to indicate a broken shear pin or other similar malfunction.

III.D.12 WET SCRUBBER AND SETTLING POND

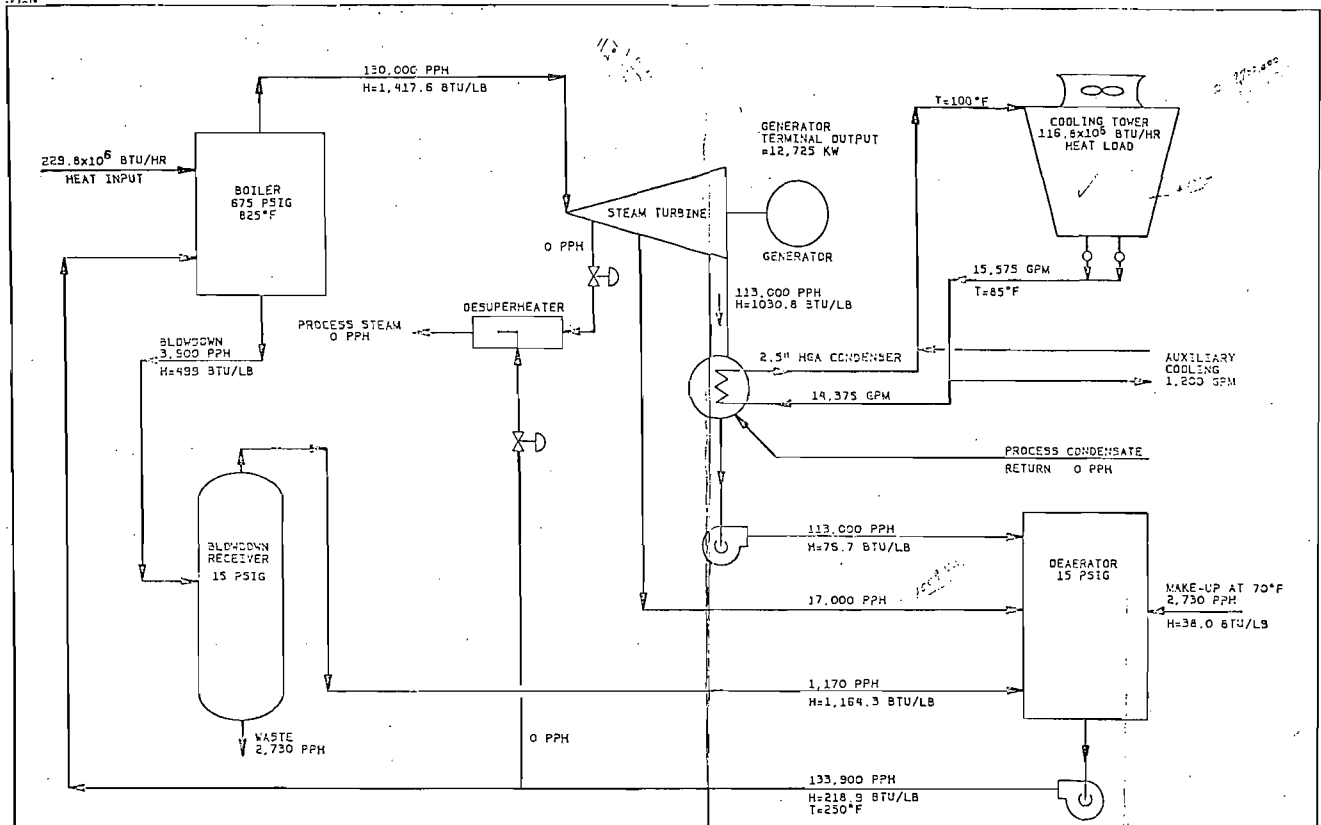
The boiler will be provided with a horizontal venturi type wet particulate scrubber. Particulate emissions from the scrubber are guaranteed to meet the requirements of Florida (0.2 #/MMBTU).

The scrubber effluent will flow by gravity to two (2) settling ponds and will be recirculated to the scrubber from a self-priming recirculation pump located at the ponds. The settling ponds shall each be approximately 100' x 50' x 6' deep, concrete lined and located at a maximum distance of 200' from the scrubber. Design includes wet well, pump foundations, crossover weir and cleanout access. All piping and electrical equipment shall be provided to and from the scrubber and ponds, and water level will be controlled by a float valve.

III.D.13 ASH CLASSIFICATION AND REINJECTION

The classification and reinjection system shall consist of, but not be limited to, the following components:

- A. One (1) rear boiler pass hopper to be located beneath the boiler mud drum, including ash removal screw and rotary seal valve.
- B. Three (3) rotary seal valves; two to be located at the discharge of the dust collector outlet hoppers and the third to be located on the rear boiler pass hopper.
- C. One (1) refractory lined front ash hopper with five (5) fire doors and five (5) ash doors for manual ash removal from the front ash hopper.



NOTE:
THIS DRAWING IS CONCEPTUAL IN NATURE AND IS SUBJECT TO CHANGE DURING FINAL ENGINEERING.

GENERAL ELECTRIC PROJECT

REV.	DATE	BY	APP.	DESCRIPTION
A				ISSUED FOR CONSTRUCTION
B				REVISED
C				REVISED
D				REVISED
E				REVISED
F				REVISED

DRAWN BY W. BURNETT	CHECKED BY J. P. HARRIS	SCALE NONE
DESIGNED BY W. BURNETT	PROJECT ENGINEER J. P. HARRIS	
FILE NO. 565V415		
PROJECT NO.		

PRELIMINARY

TITLE HEAT BALANCE WITH NO PROCESS STEAM
PROJECT WOOD FIRED POWER PLANT
DRAWN FOR TIMBER ENERGY RESOURCES, INC. BLOUNTSTOWN, FLORIDA

GENERAL ELECTRIC PROJECTED AND OPERATING CAPACITY ESTIMATION BASED ON PRELIMINARY SPECIFICATIONS
65M4415C
V201
A

*M. J. ...
...
...
...
...
...*

Liberty Journal

TERESA EUBANKS
Editor

JOHNNY EUBANKS
Publisher

P. O. Box 536
Bristol, Florida 32321
Phone (904) 643-2660

AFFIDAVIT OF PUBLICATION

Liberty Journal

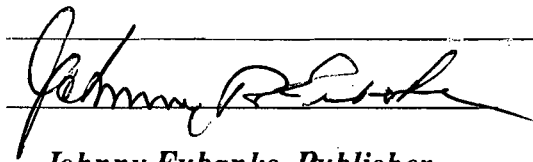
A Weekly Newspaper Published In Bristol,

Liberty County, Florida.

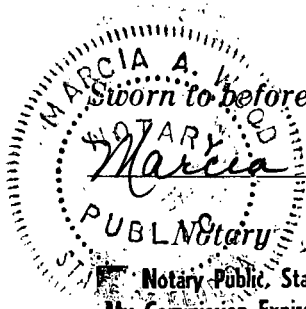
RE: Timber Energy Resources

Before me, the undersigned authority, personally appeared, Johnny Eubanks, Publisher of the Liberty Journal, a weekly newspaper published in Bristol, Liberty County, Florida, and having published once a week since February 4, 1981, and that the attached notice was published for 3 consecutive weeks in the Liberty Journal, published as foresaid beginning with the issue of October 3, 1984

Other issues of said advertisement were: October 10 and October 17, 1984



Johnny Eubanks, Publisher



Sworn to before me this 25th day of October, 1984.

Marcia A. Wood
Notary

Notary Public, State of Florida
My Commission Expires June 19, 1988
Bonded Thru Troy Fain - Insurance, Inc.

DER

OCT 26 1984

BAQM

eb
19

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

September 19, 1984

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Mitchell Larkins
Vice President, General Manager
Timber Energy Resources
Post Office Box 725
Highway 20
Bristol, Florida 32321

Dear Mr. Larkins:

Attached is one copy of the Technical Evaluation and Preliminary Determination, and proposed permit to construct a carbonaceous fuel fired boiler at your existing facility in Telogia, Liberty County, Florida.

Before final action can be taken on your draft permit, you are required by Florida Administrative Code Rule 17-103.150 to publish the attached Notice of Proposed Agency Action in the legal advertising section of a newspaper of general circulation in Liberty County no later than fourteen days after receipt of this letter. The department must be provided with proof of publication within seven days of the date the notice is published. Failure to publish the notice may be grounds for denial of the permit.

Please submit, in writing, any comments which you wish to have considered concerning the department's proposed action to Mr. Bill Thomas of the Bureau of Air Quality Management.

Sincerely,

C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management

CHF/pa

Attachments

cc: William A. Tomb, Perry Smith Company, Inc.
Tom Moody, DER Northwest District

PS Form 3811, Jan. 1979

SENDER: Complete items 1, 2, and 3. Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)
 Show to whom and date delivered.....
 Show to whom, date and address of delivery.....
 RESTRICTED DELIVERY
 Show to whom and date delivered.....
 RESTRICTED DELIVERY.
 Show to whom, date, and address of delivery.....
 (CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
 Mr. Mitchell Larkins
 P. O. Box 725
 Bristol, FL 32321

3. ARTICLE DESCRIPTION:
 REGISTERED NO. CERTIFIED NO. INSURED NO.
 P167682464
 (Always obtain signature of addressee or agent)

I have received the article described above.
 SIGNATURE Addressee Authorized agent
Allen Larkins

4. DATE OF DELIVERY: 9-24-84
 POSTMARK: SFP 24 1984

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE: _____
 CLERK'S INITIALS

PS Form 3800, Apr. 1976

P16 7682464
 RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

SENT TO
 Mr. Mitchell Larkins
 STREET AND NO.
 P.O., STATE AND ZIP CODE

POSTAGE	\$	
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE	c
	SPECIAL DELIVERY	c
	RESTRICTED DELIVERY	c
	OPTIONAL SERVICES	
	RETURN RECEIPT SERVICE	
	SHOW TO WHOM AND DATE DELIVERED	c
	SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	c
	SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	c
	SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	c
TOTAL POSTAGE AND FEES	\$	
POSTMARK OR DATE		
9/21/84		

★GPO : 1979-300-469

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of an)
Application for Permit by:)
)
Timber Energy Resources) DER File No. AC 39-090091
Post Office Box 725)
Bristol, Florida 32321)
)

INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its Intent to Issue, and proposed order of issuance for, a permit pursuant to Chapter 403, Florida Statutes, for the proposed project as detailed in the application specified above. The Department is issuing this Intent to Issue for the reasons stated in the attached Technical Evaluation and Preliminary Determination.

The applicant, Timber Energy Resources, applied on July 16, 1984, to the Department of Environmental Regulation for a permit to construct a carbonaceous fuel fired boiler at its existing facility in Telogia, Liberty County, Florida.

The Department has permitting jurisdiction under Chapter 403, Florida Statutes and Florida Administrative Code Rules 17-2 and 17-4. The project is not exempt from permitting procedures. The applicant was officially notified by the Department that an air construction permit was required for the proposed work.

This intent to issue shall be placed before the Secretary for final action unless an appropriate petition for a hearing pursuant to the provisions of Section 120.57, Florida Statutes, is filed within fourteen (14) days from receipt of this letter or

publication of the public notice (copy attached) required pursuant to Rule 17-103.150, Florida Administrative Code, whichever occurs first. The petition must comply with the requirements of Section 17-103.155 and Rule 28-5.201, Florida Administrative Code (copy attached) and be filed pursuant to Rule 17-103.155(1) in the Office of General Counsel of the Department of Environmental Regulation at 2600 Blair Stone Road, Tallahassee, Florida 32301.

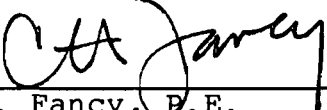
Petitions which are not filed in accordance with the above provisions are subject to dismissal by the Department. In the event a formal hearing is conducted pursuant to Section 120.57(1), all parties shall have opportunity to respond, to present evidence and argument on all issues involved, to conduct cross-examination of witness and submit rebuttal evidence, to submit proposed findings of facts and orders, to file exception to any order or hearing officer's recommended order, and to be represented by counsel. If an informal hearing is requested, the agency, in accordance with its rules of procedure, will provide affected persons or parties or their counsel an opportunity, at a convenient time and place, to present to the agency or hearing officer, written or oral evidence in opposition to the agency's action or refusal to act, or a written statement challenging the grounds upon which the agency has chosen to justify its action or inaction, pursuant to Section 120.57(2), Florida Statutes.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the proposed agency action. Therefore, persons who may not wish to file a petition, may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Model Rule 28-5.207 at least five (5) days before the final hearing and be filed with the hearing officer if one has been assigned at the Division of

Administrative Hearings, 2009 Apalachee Parkway, Tallahassee, Florida 32301. If no hearing officer has been assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32301. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes.

Executed the 20 day of Sept, 1984, in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management

Copies furnished to:

Mr. Mitchell Larkins, Timber Energy Resources
Mr. William A. Tomb, Perry Smith Company, Inc.
Mr. Tom Moody, DER Northwest District

Preliminary Determination
and
Technical Evaluation

Timber Energy Resources
Carbonaceous Fuel Fired Boiler

129MM BTU/hr

Liberty County, Florida

Permit Number
AC 39-090091

Florida Department of Environmental Regulation
Bureau of Air Quality Management
Central Air Permitting

September 17, 1984

State of Florida
Department of Environmental Regulation
Notice of Proposed Agency Action
on Permit Application

The Department of Environmental Regulation gives notice of its intent to issue a permit to Timber Energy Resources to construct a 129 million Btu per hour carbonaceous fuel, bark and waste wood fired boiler at Timber Energy Resources' existing site on Highway 65 South in Telogia, Liberty County, Florida. A determination of best available control technology (BACT) was not required.

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32301, within fourteen (14) days of publication of this notice. Failure to file a request for hearing within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this preliminary statement. Therefore, persons who may not object to the proposed agency action may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Model Rule 28-5.207 at least five (5) days before the final hearing and be filed with the hearing officer if one has been assigned at the Division of Administrative Hearings, Department of Administration, 2009, Apalachee Parkway, Tallahassee, Florida 32301. If no hearing officer has been assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32301. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes.

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Dept. of Environmental Regulation
Northwest District
160 Governmental Center
Pensacola, Florida 32501

Dept. of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, Florida 32301

Any person may send written comments on the proposed action to Mr. Bill Thomas at the department's Tallahassee address. All comments mailed within 30 days of the publication of this notice will be considered in the department's final determination.

RULES OF THE ADMINISTRATIVE COMMISSION
MODEL RULES OF PROCEDURE
CHAPTER 28-5
DECISIONS DETERMINING SUBSTANTIAL INTERESTS

28-5.15 Requests for Formal and Informal Proceedings

- (1) Requests for proceedings shall be made by petition to the agency involved. Each petition shall be printed typewritten or otherwise duplicated in legible form on white paper of standard legal size. Unless printed, the impression shall be on one side of the paper only and lines shall be double spaced and indented.
- (2) All petitions filed under these rules should contain:
 - (a) The name and address of each agency affected and each agency's file or identification number, if known;
 - (b) The name and address of the petitioner or petitioners;
 - (c) All disputed issues of material fact. If there are none, the petition must so indicate;
 - (d) A concise statement of the ultimate facts alleged, and the rules, regulations and constitutional provisions which entitle the petitioner to relief;
 - (e) A statement summarizing any informal action taken to resolve the issues, and the results of that action;
 - (f) A demand for the relief to which the petitioner deems himself entitled; and
 - (g) Such other information which the petitioner contends is material.

I. Applicant and Source Location

A. Applicant

Timber Energy Resources
P. O. Box 725
Highway 20
Bristol, Florida 32321

B. Source Location

The proposed construction will occur at Timber Energy Resources' existing site located in Telogia, Liberty County, Florida. The UTM coordinates are: Zone 16,709.4 km east and 3358.1 km north.

II. Project Description

The proposed project is for the construction of a carbonaceous fuel boiler with maximum 129 million Btu per hour heat input. Bark and waste wood will be the only fuel fired in the boiler; no fossil fuel will be fired in the boiler. The existing grates, wood feeder system, forced draft fans and overfire air fan will be retained and used with the proposed boiler. Particulate pollution control will be handled by a modified multiclone dust collector, a new venturi scrubber and vertical separator. A new induced draft fan will be added to produce the necessary static for the required pressure drop encountered in the flue gas train.

III. Air Emission

The major air pollutant from the bark boiler is particulate matter (PM), the company proposes to use a multiclone followed by a venturi scrubber for PM emission control. The stated efficiencies are 80% and 90% for the multiclone and venturi scrubber, respectively. The maximum PM emission from the new source will be 25.8 pounds per hour and 108 tons per year.

IV. Rule Applicability

The proposed project is subject to preconstruction review under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code (FAC).

The new boiler will be a major source in a minor existing facility located in an attainment area for all the pollutants. According to Rule Section 17-2.500(2)(d), the facility will not belong to any of the facility categories listed in Table 500-1, Major Facility Categories. Therefore, the project is not subject

to the provisions of Rule Section 17-2.500, Prevention of Significant Deterioration (PSD). The new boiler is subject to Rule Section 17-2.600(10)b, the emission limiting and performance standards for new carbonaceous fuel burning equipment. The regulated PM emission limit is 0.2 pound per million Btu of heat input of carbonaceous fuel, and the limit for visible emissions is 30% opacity.

V. Conclusion

Based on an evaluation of the application and additional information, the department believes that compliance with applicable state air pollution regulations will be achieved provided certain specific conditions are met.

The general and specific conditions are listed in the attached draft state permit (AC 39-090091).

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Timber Energy Resources
P. O. Box 725
Highway 20
Bristol, Florida 32321

Permit Number: AC 39-090091
Date of Issue:
Expiration Date: September 30, 1985
County: Liberty
Latitude/Longitude: 30° 20' 17"N/
84° 49' 20"W
Project: 129 MMBtu/hr Bark/Wood
Boiler

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

For the construction of a carbonaceous fuel, bark and waste wood, fired boiler with a heat input capacity of 129 million Btu per hour at Telogia, in Liberty County, Florida.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, specific conditions.

Attachments:

1. Application to Construct Air Pollution Sources, DER Form 17-1.122(16), received on April 18, 1984.
2. Additional information from Perry Smith Co., received on July 20, 1984.
3. The letter from Mr. Mitchell Larkins, received on August 6, 1984.

PERMITTEE:
Timber Energy Resources

I. D. Number:
Permit Number: AC 39-090091
Date of Issue:
Expiration Date: Sept. 30, 1985

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

PERMITTEE:
Timber Energy Resources

I. D. Number:
Permit Number: AC 39-090091
Date of Issue:
Expiration Date: Sept. 30, 1985

GENERAL CONDITIONS:

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

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

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

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

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

PERMITTEE:
Timber Energy Resources

I. D. Number:
Permit Number: AC 39-090091
Date of Issue:
Expiration Date: Sept. 30, 1985

GENERAL CONDITIONS:

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

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

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
Timber Energy Resources

I. D. Number:
Permit Number: AC 39-090091
Date of Issue:
Expiration Date: Sept. 30, 1985

GENERAL CONDITIONS:

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

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

SPECIFIC CONDITIONS:

1. The subject boiler is allowed to operate up to 24 hours per day, 7 days per week, 50 weeks per year, or 8,400 hours per year.
2. The boiler is only allowed to burn bark and waste wood. No fossil fuel shall be fired in the boiler.
3. The allowable heat input of the boiler is 129 million Btu per hour.

PERMITTEE:
Timber Energy Resources

I. D. Number:
Permit Number: AC 39-090091
Date of Issue:
Expiration Date: Sept. 30, 1985

SPECIFIC CONDITIONS:

4. The venturi scrubber and separator shall maintain proper pressure drops in order to keep high efficiency. The minimum pressure drops in the scrubber and the separator for compliance shall be determined in the compliance test. The operating permit shall address the minimum pressure drops as a specific condition. Continuous records of pressure drops shall be kept for state agency's inspection.

5. The allowable particulate emission limit from the boiler is 0.2 lb/MMBtu. EPA Method 5 shall be used for the compliance test conducted by the permittee.

6. The allowable visible emissions from the boiler are 30% opacity except that 40% opacity is permissible for not more than two minutes in any one hour. DER Method 9 (17-2.700(b)(a)9, FAC) shall be used for the compliance test conducted by the permittee.

7. The fugitive dust emissions from the bottom dry ash and multiclone dry ash handling areas shall be properly controlled. Opacity in these areas shall not exceed 5%.

8. Reasonable precautions to prevent fugitive particulate emissions during construction, such as coating or spraying roads and the construction site, shall be taken by the permittee.

9. The compliance tests shall be conducted within 10 percent of the maximum heat input of 129 MMBtu/hr.

10. A complete operation and maintenance plan shall be submitted to the Northwest District with the certificate of completion of construction as required by Rule 17-2.650(2)(g), FAC.

11. The permittee shall demonstrate compliance with the conditions of this construction permit and submit a complete application for an operating permit to the Northwest District prior to 90 days before the expiration date of this permit. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration or until issuance of an operating permit.

PERMITTEE:
Timber Energy Sources

Permit Number: AC 39-09001
Date of Issue:
Expiration Date: Sept. 31⁰, 1985 —

SPECIFIC CONDITIONS:

Issued this _____ day of _____, 19__

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

_____ pages attached.

Subpart Db - Standards of
Performance for Industrial
Commercial - Institutional
Steam Generating Units

Proposed Rule

June 19, 1984 Federal Register

DER

AUG 05 1984

BAQM

July 23, 1984

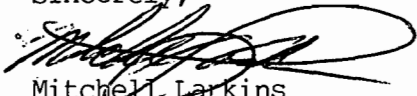
Mr. Robert King
Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, FL 32301

Dear Sir,

This letter is to confirm our telephone conversation of this morning. On the permit application for the old Reichhold plant in Telogia, please change the name from Liberty Energy Resources, Inc. to Timber Energy Resources, Inc. a Texas corporation.

Thank you.

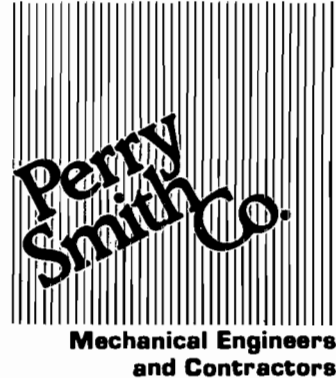
Sincerely,



Mitchell Larkins
Vice-President and General Manager

ML/amp

cc: Randal Hanna
C.J. Bailey, Jr.



July 18, 1984

Bureau of Air Quality Management, DER
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301-8241

Attn: Mr. Bob King, Engineer

RE: Application to Construct
Air Pollution Source
Southeastern Wood Energy
Telogia, Florida

DER
JUL 20 1984
BAQM

Gentlemen:

We appreciate the opportunity to talk with you this morning in an effort to clarify any discrepancies relative to the referenced Application filed with you earlier this year. In reviewing the items you mentioned, it was discovered that a number of calculations, etc. in the original application were incorrect. All of this has been thoroughly reviewed today, and we are enclosing five (5) copies of the following pages which have been revised:

- (a) Section III - Air Pollution Sources and Control Devices
- (b) Three (3) pages covering "Calculations for Application to Construct Air Pollution Source"
- (c) Perry Smith Company Drawing No. SK-4020-1. This flow schematic replaces the earlier ones sent to you.

As regards the control of fugitive dusts at Removal Points No. 2 and No. 3 shown on our Drawing No. SK-4020-1 we wish to make the following comments:

A. Point No. 2, Stoker Sifting Hopper(s):

One or more hopper discharge points shall be provided underneath the existing Detroit stoker to dispose of siftings through the stoker grate bars. The best method to handle/convey this dry ash will be with screw conveyors dumping into a tote box or similar container for pick-up by trucks for delivery to landfill. The hopper discharge point(s) will have a dust tight connection onto covered screw conveyors. Some dust is generated at the conveyor discharge point; however, controlled water sprays will be utilized

to eliminate the dust. Water necessary only for dust control will be utilized without excessive amounts that would possibly cause a run-off problem.

B. Point No. 2, Front Ash Discharge Hopper

The boiler/stoker is provided with a refractory lined discharge hopper at the boiler front to collect ashes discharged from the stoker grate. This hopper is provided with dust tight doors which are opened only when accumulated ash is to be removed. One method of ash removal from the hoppers is to rake it into a wheelbarrow or similar conveyance. In this case the ash within the front hopper can be sprayed with water prior to removal. Another method of removal would be for the ash to discharge into a covered drag conveyor which would discharge into a tote box as described in Item A and dust controlled by a similar water spray. Since the boiler is under a negative pressure, much of the dust is also sucked back into the furnace when cleaning the hopper.

C. Point No. 3, Multiclone Ash Removal

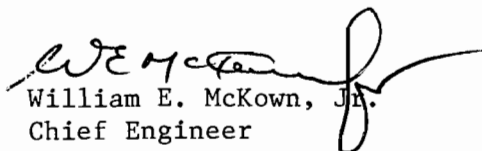
Ash from the dry multiclone is discharged through a rotary valve and could be handled exactly as described in Item A. Another alternative would be to extend the rotary valve discharge pipe closer to grade level and discharge directly into a tote box without the use of a screw conveyor; however, water sprays would still be utilized.

Based upon our previous experience with wood fired boilers, there is no question as to our being able to control the fugitive dust. Opacity in these areas shall not exceed 5%.

We trust the revised Application pages, calculation sheets, flow schematic and our comments on fugitive dust control will satisfy the necessary requirements to allow your approval of the Permit Application. Please call me if there are further questions.

Very truly yours,

PERRY SMITH COMPANY, INC.


William E. McKown, Jr.
Chief Engineer

WEM/ss

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

JUL 20 1984

BAQM

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
	See Section III, E. Fuels			

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

- Total Process Input Rate (lbs/hr): See Section III, E. Fuels
- Product Weight (lbs/hr): See Section III, E. Fuels

C. Airborne Contaminants Emitted:

Name of Contaminant	Emission ¹		Allowed Emission ² Rate per Ch. 17-2, F.A.C.	Allowable ³ Emission lbs/hr	Potential Emission ⁴		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/hr	T/yr	
Particulate	19.2	80.64	0.2 pounds/MMBTU	25.78	962	4040	Point No. 4
(Fly Ash)			Input 17-2.600 (10) (b)				
Visible Emissions	N/A	N/A	Number 1.5 Ringelmann	N/A	N/A	N/A	Point No. 4
(opacity)			17-2.600 (10) (b)				

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles ⁵ Size Collected (in microns)	Basis for Efficiency (Sec. V, It ⁵)
Fly Ash Arrestor Corp.	Particulate	80%	N/A	See
MTSA-66-92YT-XD				Attached
(Modified) Dust Collector				Calculations
Perry Smith Co. Model	Particulate	90%		Sheets
80M Venturi Scrubber				
and vertical separator				

¹See Section V, Item 2.

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

³Calculated from operating rate and applicable standard

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

⁵If Applicable

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
Bark and Waste Wood Mix	24,636	24,636	128.92

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

Fuel Analysis:

Percent Sulfur: 0.00 Percent Ash: 0.36
 Density: 20-25 Lb/C.F. lbs/gal Typical Percent Nitrogen: 0.04
 Heat Capacity: 5,233 BTU/lb BTU/gal
 Other Fuel Contaminants (which may cause air pollution): None

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

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

Dry solid wastes (ash) will be removed from the grates at the boiler front and from the "Dust Collector" thru rotary seal valves and disposed of in land fill.

Semi-wet waste will be removed from scrubber circulating ponds and disposed of in land fill.

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

Stack Height: 88'-6" (Above Grade) ft. Stack Diameter: 5'-6" ft.
 Gas Flow Rate: 46,324 ACFM Gas Exit Temperature: 151 °F.
 Water Vapor Content: 21.5% (By Weight) % Velocity: 32.5 FPS

SECTION IV: INCINERATOR INFORMATION

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

Description of Waste

Total Weight Incinerated (lbs/hr) Design Capacity (lbs/hr)

Approximate Number of Hours of Operation per day days/week

Manufacturer

Date Constructed Model No.

SOUTHEASTERN WOOD ENERGY
TELOGIA, FLORIDA

Calculations for Application to Construct
Air Pollution Source

Boiler: Bigelow Size KVS-2026
Capacity: 77,000 Lbs./Hr., 675 PSIG, 825° FTT

Fuel Analysis:	Percent by Weight
Ash	0.36
Sulfur	0.00
Hydrogen	3.55
Carbon	27.90
Nitrogen	0.04
Oxygen	18.15
Water	50.00

BTU Value/Pound (As Fired): 5,233
Pounds of Fuel Burned/Hour: 24,636
Heat Input Per Hour: 128.92 MM BTU's

Allowable Particulate Emissions per DER 17-2.600(10)(b) 2.b. or
17-2.650(2)(c)3.b(i) = 0.2 pounds/MM BTU Heat Input

$$0.2 \times 128.92 = 25.78 \text{ Pounds/Hour}$$

Mass Flue Gas Flow = 160,932 Lbs./Hr @ 50% excess air

Flue Gas Volume = 37,420 SCFM

Estimated Particulate Loading at boiler exit = 3 Grains/SCF

$$37,420 \times 3 = 112,260 \text{ Grains/Minute}$$

$$112,260 \div 7,000 = 16.04 \text{ Pounds/Minute}$$

$$16.04 \times 60 = 962 \text{ Pounds/Hour}$$

PARTICULATE CONTROL EQUIPMENT

- I. Fly Ash Arrestor Corporation MTSA-66-92YT-XD (Modified)

Performance Data:

57,190 ACFM @ 350°F with 2.50" w.g. ΔP

Collection efficiency based on manufacturer's calculations and data obtained from prior installations > 80%

Particulate Loading Entering "Dust Collector" = 962 Pounds/Hour

Particulate Loading at exit of collector @80% efficiency
= 20% x 962 = 192.4 Pounds/Hour

2. Perry Smith Company Model 80M wet venturi scrubber with vertical moisture separator.

Performance Data:

57,190 ACFM @ 350°F with 6" w.g. ΔP in venturi and 2" w.g. ΔP in separator.

Water scrubbing rate = 500 - 600 GPM

Water evaporation rate = ~15 GPM

Collection efficiency based on data obtained from prior installations >90%

Particulate Loading entering venturi scrubber
= 192.4 pounds/hour

Particulate emissions at stack exit @90% efficiency
=10% x 192.4 = 19.2 pounds/hour

19.2 Lbs./Hr < 25.78 Lbs./Hr. allowed

Tons emitted per year based on 8,400 hours operation = 80.64

Test method to prove conformance with Florida Air Pollution Control Requirements to be per EPA Test Method 5.

Allowable Visible Emissions per DER 17-2.600(10)(b) 2.a or 17-2.650(2)(c) 3.b(ii) to be no greater than number 1.5 on the Ringelmann Chart (30% Opacity).

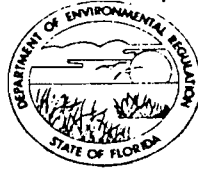
The boiler is equipped with a complete combustion control system with fuel/air ratio control. The boiler will also have an overfire air system creating turbulence in the furnace and further complete combustion of hydrocarbons and small particles of suspended fuels. The combination of these items assures that the visible emissions will meet the Florida Air Pollution Control Requirements.

Test method to prove conformance with Florida Air Pollution Control Requirements to be per DER Method 9 or EPA Method 9 (with exceptions).

EMISSION STACK GEOMETRY & FLOW CHARACTERISTICS

Stack I.D. = 5'-6"
Stack Area = 23.76 Sq. Ft.
Height of Stack Above Grade = 88'-6"
Height of Test Ports above Grade = 77'-6"
Height of Test Platform above Grade = 72'-10"
Height of Separator Exit above Grade = 33'-2 5/8"

Test Ports: 2-4" IPS w/MPT Connections, 90° apart
Test Platform: 126°
Platform Access: Ladder w/Saf-T-Climb w/3-Belts
Electrical Power: 2 - 120V, 20A outlets at platform.



STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
APPLICATION TO OPERATE/CONSTRUCT
AIR POLLUTION SOURCES

DER
JUL 16 1984
BAQM

SOURCE TYPE: Carbonaceous Fuel Fired Boiler New¹ Existing¹
APPLICATION TYPE: Construction Operation Modification
COMPANY NAME: Liberty Energy Resources, Inc. * COUNTY: Liberty
Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peeking Unit No. 2, Gas Fired) Wood fuel fired boiler with dust collector and venturi scrubber
SOURCE LOCATION: Street Highway 65 South City Telogia, 32360
UTM: East _____ North _____
Latitude 30 ° 20 ' 17 " N Longitude 84 ° 49 ' 20 " W
APPLICANT NAME AND TITLE: Mitchell Larkins - President General Manager
APPLICANT ADDRESS: P. O. Box 725 Highway 20 Bristol, Florida 32321

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Liberty Energy Resources, Inc. *

I certify that the statements made in this application for a Air Pollution Source 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

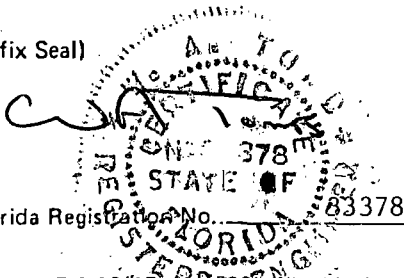
Signed: *Mitchell Larkins* Vice-
Mitchell Larkins - President,
Name and Title (Please Type) General Manager
Date: _____ Telephone No. 904-643-2641

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 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: *William A. Tomb*
William A. Tomb
Name (Please Type)
Perry Smith Company, Inc.
Company Name (Please Type)
P. O. Box 21282 Chattanooga, TN 37421
Mailing Address (Please Type)
Date: 3/30/84 Telephone No. 615-892-7130

(Affix Seal)



¹See Section 17-2.02(15) and (22), Florida Administrative Code, (F.A.C.)

* A corporation to be formed under the laws of the State of Florida.

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.

See Attached Sheet

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

Start of Construction Aug. 1984 Completion of Construction November, 1984

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.)

<u>Existing Mechanical Dust Collector Modifications</u>	<u>\$30,000.00</u>
<u>Wet Venturi Scrubber and Separator</u>	<u>\$47,000.00</u>
<u>Overfire Air System</u>	<u>\$10,000.00</u>

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

Florida DER Operation Permit No. A039-24573 issued January 11, 1980 with expiration on March 19, 1984 to Reichhold Chemicals, Inc. for 410,000 #/Day

Spentwood chips fired in boiler at this same site. DER Permit/Certification No. IT39-57356 for boiler fly-ash settling basins.

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

F. Normal equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 50 ; if power plant, hrs/yr 8,400 ; if seasonal, describe: _____

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

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

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

SECTION II: GENERAL PROJECT INFORMATION

- A. The project consists of the installation of a new, waste carbonaceous (wood) fuel fired 77,000 pounds of steam per hour boiler within the building confines that previously housed an older, spentwood fuel fired 70,000 pounds of steam per hour boiler. The existing grates, wood feeder system, forced draft fans and overfire air fan will be retained. Particulate pollution control equipment will consist of a modified multiclone dust collector, new wet venturi scrubber and vertical separator. The new induced draft fan will produce the necessary static for the required pressure drop encountered in the flue gas train. Opacity will be controlled by the installation of an overfire air system on the boiler. The existing combustion control system will be reused. Design of the project, along with proper operation, will result in full compliance with the State of Florida, Department of Environmental Regulations as regards particulate emissions and visible emissions (opacity).

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		
	See Section III, E. Fuels			

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

1. Total Process Input Rate (lbs/hr): See Section III, E. Fuels
2. Product Weight (lbs/hr): See Section III, E. Fuels

C. Airborne Contaminants Emitted:

Name of Contaminant	Emission ¹		Allowed Emission ² Rate per Ch. 17-2, F.A.C.	Allowable ³ Emission lbs/hr	Potential Emission ⁴		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/hr	T/yr	
Particulate (Fly Ash)	23.4	98.28	0.2 pounds/MMBTU Input 17-2.600 (10) (b)	38.68	1170	4914	Point No. 4
Visible Emissions (opacity)	N/A	N/A	Number 1.5 Ringelmann	N/A	N/A	N/A	Point No. 4

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles ⁵ Size Collected (in microns)	Basis for Efficiency (Sec. V, It ⁵)
Fly Ash Arrestor Corp. MTSA-66-92YT-XD (Modified) Dust Collector	Particulate	80%	N/A	See Attached Calculations
Perry Smith Co. Model 80M Venturi Scrubber and vertical separator	Particulate	90%		Sheets

¹See Section V, Item 2.

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

³Calculated from operating rate and applicable standard

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

⁵If Applicable

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
Bark and Waste Wood Mix	24,636	24,636	128.92

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

Fuel Analysis:

Percent Sulfur: 0.00 Percent Ash: 0.36
 Density: 20-25 Lb/C.F. lbs/gal Typical Percent Nitrogen: 0.04
 Heat Capacity: 5,233 BTU/lb _____ BTU/gal
 Other Fuel Contaminants (which may cause air pollution): None

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

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

Dry solid wastes (ash) will be removed from the grates at the boiler front and from the "Dust Collector" thru rotary seal valves and disposed of in land fill.

Semi-wet waste will be removed from scrubber circulating ponds and disposed of in land fill.

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

Stack Height: 70' (Above Grade) ft. Stack Diameter: 6'-0" ft.
 Gas Flow Rate: 57,190 ACFM Gas Exit Temperature: 151 °F.
 Water Vapor Content: 11.1% (By Weight) % Velocity: 33.2 FPS

SECTION IV: INCINERATOR INFORMATION

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

Description of Waste _____

Total Weight Incinerated (lbs/hr) _____ Design Capacity (lbs/hr) _____

Approximate Number of Hours of Operation per day _____ days/week _____

Manufacturer _____

Date Constructed _____ Model No. _____

SOUTHEASTERN WOOD ENERGY
TELOGIA, FLORIDA

Calculations for Application to Construct
Air Pollution Source

Boiler: Bigelow Size KVS-2026
Capacity: 77,000 Lbs./Hr., 675 PSIG, 825° FTT

Fuel Analysis:	Percent by Weight
Ash	0.36
Sulfur	0.00
Hydrogen	3.55
Carbon	27.90
Nitrogen	0.04
Oxygen	18.15
Water	50.00

BTU Value/Pound (As Fired): 5,233
Pounds of Fuel Burned/Hour: 24,636
Heat Input Per Hour: 128.92 MM BTU's

Allowable Particulate Emissions per DER 17-2.600(10)(b) 2.b. or
17-2.650(2)(c)3.b(i) = 0.3 pounds/MM BTU Heat Input

$$0.3 \times 128.92 = 38.676 \text{ Pounds/Hour}$$

Mass Flue Gas Flow = 160,932 Lbs./Hr @ 50% excess air

Flue Gas Volume = 55,490 SCFM

Estimated Particulate Loading at boiler exit = 3 Grains/SCF

$$55,490 \times 3 = 136,470 \text{ Grains/Minute}$$

$$136,470 \div 7,000 = 19.50 \text{ Pounds/Minute}$$

$$19.50 \times 60 = 1,170 \text{ Pounds/Hour}$$

PARTICULATE CONTROL EQUIPMENT

I. Fly Ash Assessor Corporation MTSA-66-92YT-XD (Modified)

Performance Data:

69,522 ACFM @ 350°F with 2.50" w.g. ΔP

Collection efficiency based on manufacturer's calculations and data obtained from prior installations 80%

Particulate Loading Entering "Dust Collector" = 1,170 Pounds/Hour

Particulate Loading at exit of collector @80% efficiency
= 20% x 1,170 = 234.0 Pounds/Hour

2. Perry Smith Company Model 80M wet venturi scrubber with vertical moisture separator. (Dwg. No's. D-0760 & D-0761 and Performance Curve on Gorman - Rupp scrubber circulating pump enclosed)

Performance Data:

69,522 ACFM @ 350°F with 6" w.g. ΔP in venturi and 2" w.g. ΔP in separator.

Water scrubbing rate = 515 - 630 GPM

Water evaporation rate = ~17 GPM

Collection efficiency based on data obtained from prior installations 90%

Particulate Loading entering venturi scrubber
= 234.0 pounds/hour

Particulate emissions at stack exit @90% efficiency
=10% x 234.0 = 23.4 pounds/hour

23.4 Lbs./Hr 38,676 Lbs./Hr. allowed

Tons emitted per year based on 8,400 hours operation = 98.28

Test method to prove conformance with Florida Air Pollution Control Requirements to be per EPA Test Method 5.

Allowable Visible Emissions per DER 17-2.600(10)(b) 2.a or 17-2.650(2)(c) 3.b(ii) to be no greater than number 1.5 on the Ringelmann Chart (30% Opacity).

The boiler is equipped with a complete combustion control system with fuel/air ratio control. The boiler will also have an overfire air system creating turbulence in the furnace and further complete combustion of hydrocarbons and small particles of suspended fuels. The combination of these items assures that the visible emissions will meet the Florida Air Pollution Control Requirements.

Test method to prove conformance with Florida Air Pollution Control Requirements to be per DER Method 9 or EPA Method 9 (with exceptions).

EMISSION STACK GEOMETRY & FLOW CHARACTERISTICS

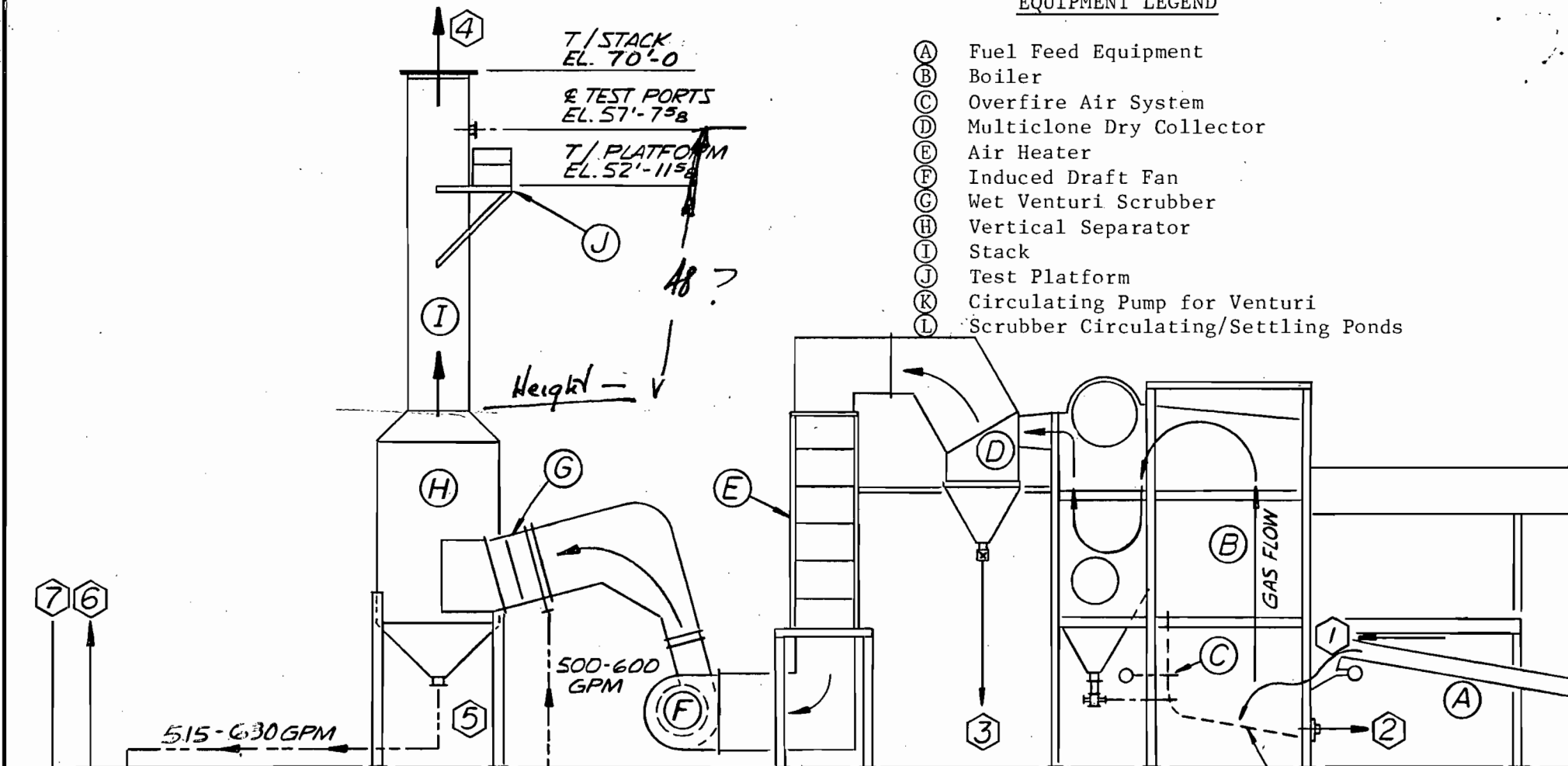
Stack I.D. = 6'-6"
Stack Area = 44.16 Sq. Ft.
Height of Stack Above Grade = 70'-0"
Height of Test Parts above Grade = 57'-7 5/8"
Height of Test Platform above Grade = 52'-11 5/8"
Height of Separator Exit above Grade = 33'-2 5/8"

Test Ports: 2-4" IPS w/MPT Connections, 90° apart
Test Platform: 126°
Platform Access: Ladder w/Saf-T-Climb w/3-Belts
Electrical Power: 2 - 120V, 20A outlets at platform.

(Dwg. No. P-0348 Enclosed)

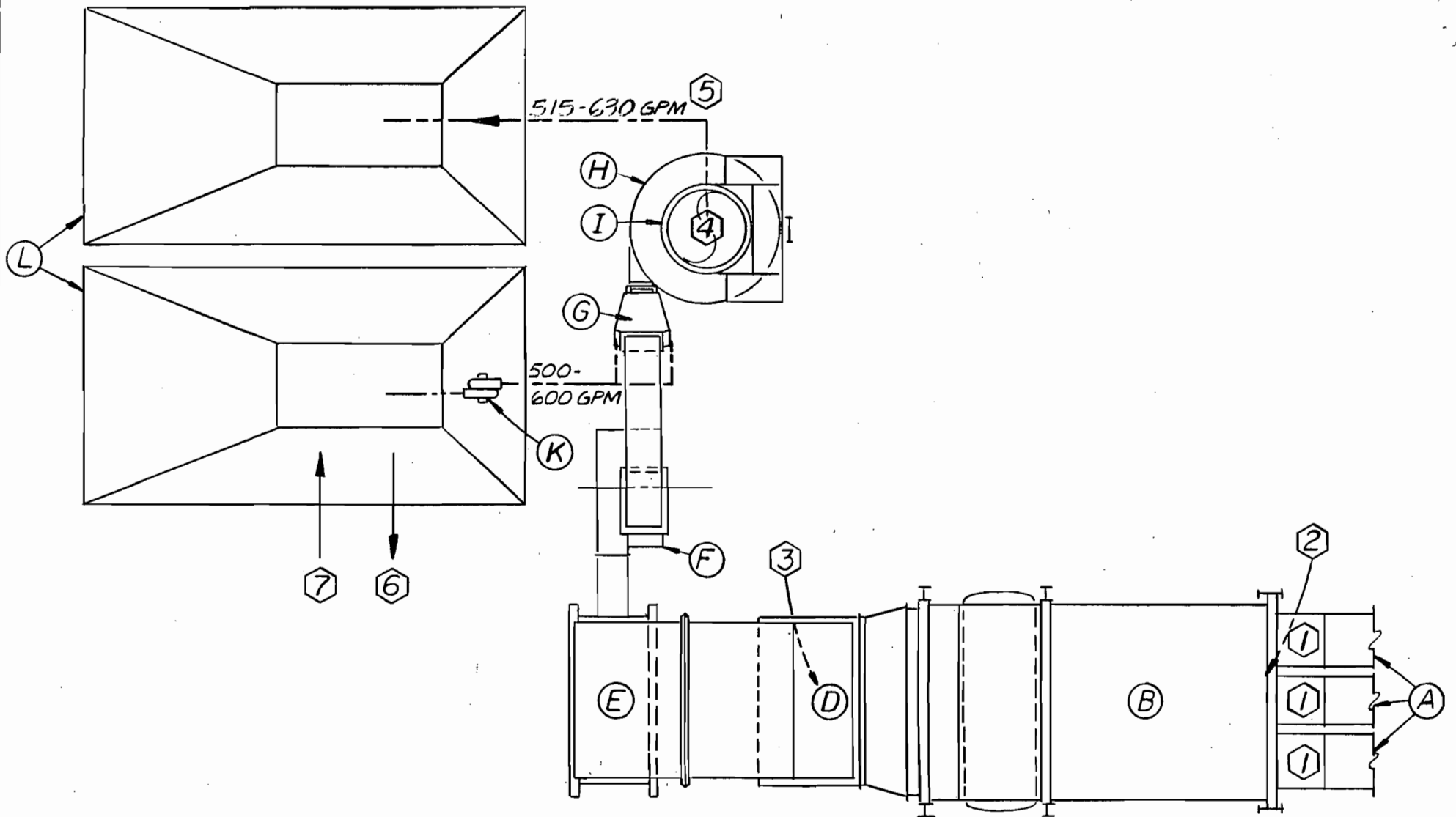
EQUIPMENT LEGEND

- (A) Fuel Feed Equipment
- (B) Boiler
- (C) Overfire Air System
- (D) Multiclone Dry Collector
- (E) Air Heater
- (F) Induced Draft Fan
- (G) Wet Venturi Scrubber
- (H) Vertical Separator
- (I) Stack
- (J) Test Platform
- (K) Circulating Pump for Venturi
- (L) Scrubber Circulating/Settling Ponds



- ① Fuel Inlet: 24,636 pounds/Hour
- ② Bottom Dry Ash Removal: Approx. 25-50 pounds/Hour
- ③ Multiclone Dry Ash Removal: Approx. 936 pounds/Hour
- ④ Stack Emission Point: 57,190 ACFM, 151°F, approx. 23. Lbs/Hr Particulate, Opacity \leq 30%, approx. 17. GPM Water Evaporated
- ⑤ Separator Discharge to Pond: Approx. 515-630 GPM, approx. 211 Lbs/Hr. of Particulate
- ⑥ Semi-Dry Ash Removal from Pond: Approx. 886 Tons/Year
- ⑦ Make-up Water from C.T. Blowdown & Equipment Room Drains: Approx. 20 GPM

SOUTHEASTERN WOOD ENERGY
TELOGIA, FLA.
FLOW SCHEMATIC



NOTE:
 FOR EQUIPMENT & FLOW LEGEND,
 SEE FLOW SCHEMATIC.

SOUTHEASTERN WOOD ENERGY
 TELOGIA, FLA.
 PLOT PLAN

C. J. BAILEY, JR.
P. O. BOX 758 472-5691
BAYTOWN, TEXAS 77520

989

7-11 19 84

88-1992
1130

PAY TO THE ORDER OF Dept. of Environmental Regulators

\$ 1,000.⁰⁰

One thousand and ^{no} 7/100

DOLLARS

Citizens Bank
Trust Co.

P.O. BOX 150
F.D.I.C. BAYTOWN, TEXAS 77520

FOR air permit

Ellen Register

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

No 76034

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from C. J. Bailey, Jr. Date July 16, 1984

Address P.O. Box 758 Baytown Texas 77520 Dollars \$ 1,000.00

Applicant Name & Address Liberty Energy Resources

Source of Revenue _____

Revenue Code 001031 Application Number _____

By Patricia B. Adams

In the folder labeled as follows there are documents, listed below, which were not reproduced in this electronic file. That folder can be found in one of the file drawers labeled Supplementary Documents Drawer. Folders in that drawer are arranged alphabetically, then by permit number.

Folder Name: Timber Energy Resources

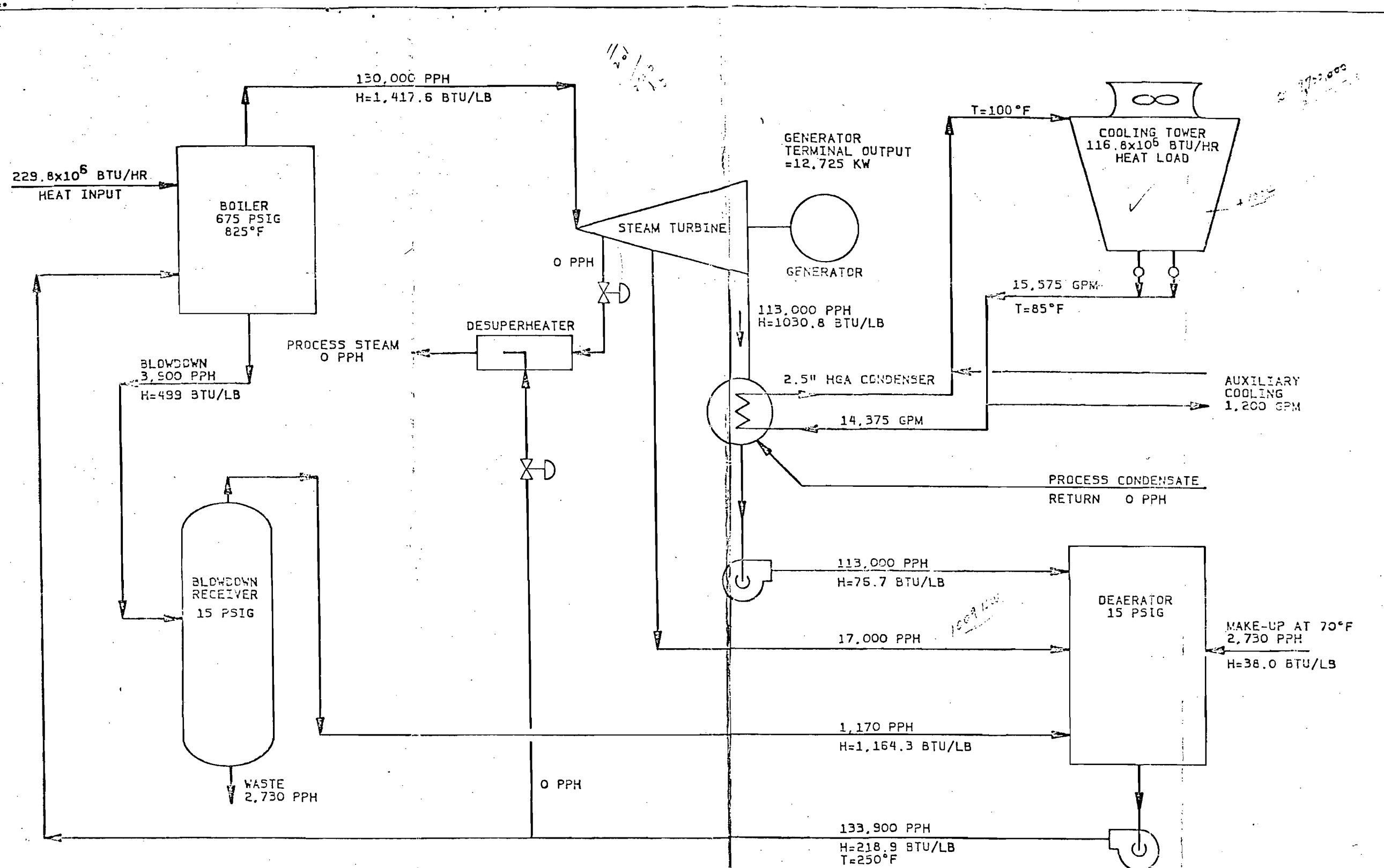
Permit(s) Numbered:

AC	39	-	090091
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Period during
which document
was received:

Detailed Description

Period during which document was received:	Detailed Description
APPLICATION 16 JULY 1984	1. 17"×22" BLUEPRINT: FLOW SCHEMATIC (DRAWING NUMBER: SK-4020-1 SHEET 1 OF 1)



(1) Process Steam Load
Now from Process
(2) One possible reason for
of Boiler Turbine
3) X-axis in Vertical
Scale
(4) See Alt 5200 B&B

(1) Structure
(2) S/D removed
(3) Original E&E change

NOTE:
THIS DRAWING IS CONCEPTUAL IN NATURE AND IS SUBJECT TO CHANGE DURING FINAL ENGINEERING.

PRELIMINARY

REV. SYMBOLS AC - APPROVED FOR PA - FOR APPROVAL B - FOR REVISIONS P - PRELIMINARY R - REVISION	REVISION NO. DATE 1 8/23/84 A 11/20/84	DRAWN BY W. BUFFINGTON	CHECKED BY []	ENG. APPROVALS MECH. [] ELEC. [] CIVIL. []	SCALE NONE PROJECT ENGINEER	TITLE HEAT BALANCE WITH NO PROCESS STEAM	GENERAL ELECTRIC PROJECTS ENGINEERING OPERATION INSTRUMENTATION SERVICES & PROJECTS DEPARTMENT ATLANTA, GA, U.S.A.
		DESIGNER []	PROJECT NO. 565M441.5	EXCEPTIONS AS NOTED	PROJECT WOOD FIRED POWER PLANT		
		PROJECT NO. 565M441.5	MADE FOR TIMBER ENERGY RESOURCES, INC. BLOUNTSTOWN, FLORIDA	PROJECT NO. 65M4415C	REV. M201 A		
		PROJECT NO. 565M441.5	PROJECT NO. 65M4415C	REV. M201 A	REV. A		