

Check Sheet

Company Name: Citrus Hill Mfg. Co  
Permit Number: AC 93-125990, 125831, 125508  
PSD Number:  
County: Polk  
Permit Engineer:  
Others involved:

→ P 4/5

Application:

- Initial Application
- Incompleteness Letters
- Responses
- Final Application (if applicable)
- Waiver of Department Action
- Department Response

Intent:

- Intent to Issue
- Notice to Public
- Technical Evaluation
- BACT Determination
- Unsigned Permit

Attachments:

- 
- 
- 
- Correspondence with:
  - EPA
  - Park Services
  - County
  - Other
- Proof of Publication
- Petitions - (Related to extensions, hearings, etc.)

Final Determination:

- Final Determination
- Signed Permit
- BACT Determination

Post Permit Correspondence:

- Extensions
- Amendments/Modifications
- Response from EPA
- Response from County
- Response from Park Services

# Best Available Copy

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 additional service(s) requested.

1.  Show to whom delivered, date, and addressee's address. (Extra charge)      2.  Restricted Delivery (Extra charge)

3. Article Addressed to: <i>Kenneth J. Ballard</i> <i>Environmental Msn.</i> <i>The Citrus Hill Mfg. Co.</i> <i>P.O. Box 2000</i> <i>Frostproof, FL 33843</i>	4. Article Number <i>P 256 395 201</i> Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise Always obtain signature of addressee or agent and <u>DATE DELIVERED.</u>
5. Signature — Addressee X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature — Agent X <i>Lapp</i>	
7. Date of Delivery <i>10-22-90</i>	

PS

P 256 395 201

## RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

*U.S.G.P.O. 1989-234-555	Sent to <i>Kenneth Ballard</i>
	Street and No. <i>Citrus Hill Me</i>
	P.O., State and ZIP Code <i>P.O. Box 2000</i>
	Postage <i>Frostproof, FL</i>
	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      \$
PS Form 3800, June 1985	Postmark or Date <i>10-11-90</i> <i>AC 53-175729</i> <i>" 727</i> <i>" 728</i>



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

October 10, 1990

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Kenneth J. Ballard  
Environmental Manager  
The Citrus Hill Manufacturing Company  
Post Office Box 2000  
Frostproof, Florida 33843

Re: Polk County - A.P.  
The Citrus Hill Manufacturing Company  
Amendments to Permit Nos. AO 53-175729, -175727 and -175728

Dear Mr. Ballard:

The Department is in receipt of your letter dated August 21, 1990, requesting an amendment to the Specific Conditions of the above referenced permits to allow you to burn waste oil as a fuel in those sources.

Before the Department can consider any such request, the construction permits issued recently for these sources will have to be modified. Accordingly, submit separate construction/modification permit applications along with appropriate fee, requesting the use of waste oil as a fuel for these sources.

If you have any questions, please call Barry Andrews at 904-488-1344.

Sincerely,

C. H. Fancy, P.E.  
Chief  
Bureau of Air Regulation

CHF/MB/plm

Attachment

c: Bill Thomas, DER Tampa

P 938 762 888

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

PS Form 3800, June 1985

Sent to <i>W.K. Miller</i>	
Street and No. <i>P.O. Box 2000 Citrus Hill, FL</i>	
P.O. State and ZIP Code <i>Frostproof, FL 33843</i>	
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	

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 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 additional service(s) requested.

- 1.  Show to whom delivered, date, and addressee's address. (Extra charge)
- 2.  Restricted Delivery (Extra charge)

3. Article Addressed to: <i>W.K. Miller The Citrus Hill Manuf. Co. P.O. Box 2000 Frostproof, FL 33843</i>	Article Number <i>P 938 762 888</i>
	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
5. Signature — Address <b>X</b>	Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> .
6. Signature — Agent <b>X</b> <i>Lapp</i>	8. Addressee's Address (ONLY if requested and fee paid)
7. Date of Delivery <i>2-5-90</i>	



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

January 30, 1990

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. W. K. Miller  
The Citrus Hill Manufacturing Company  
P. O. Box 2000  
Frostproof, Florida 33843

Dear Mr. Miller:

Re: Permit Amendment for Peel Dryer and Waste Heat Evaporator  
Permit No. AC 53-125508

The Department will amend Specific Condition No. 7 of the above referenced permit to require compliance tests for particulate emissions corresponding to the revision of particulate matter emission limitations.

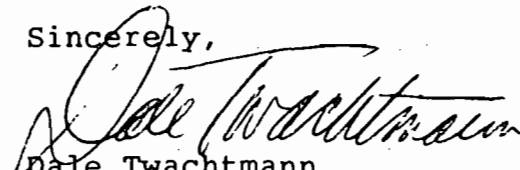
### Specific Condition No. 7 Change

From: Compliance shall be determined by DER Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources. The Department may require additional tests to be conducted should they be warranted by poor compliance test results.

To: Initial and annual compliance tests for VE and particulates shall be conducted using DER Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources, and EPA Method 5 respectively. The Department may require additional tests to be conducted should they be warranted by poor compliance test results.

This letter must be attached to the construction permit No. AC 53-125508, and shall become a part of that permit.

Sincerely,



Dale Twachtmann  
Secretary

DT/pr

c: B. Thomas, SW District



State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee	
To: _____	Location: _____
To: _____	Location: _____
To: _____	Location: _____
From: _____	Date: _____


# Interoffice Memorandum

TO: Dale Twachtmann  
FROM: Steve Smallwood  
DATE: January 29, 1990  
SUBJ: Approval of Construction Permit Amendment  
Citrus Hill Manufacturing Company  
Peel Dryer and Waste Heat Evaporator, AC 53-125508

Attached for your approval and signature is a construction permit amendment prepared by the Bureau of Air Regulation for Citrus Hill Manufacturing Company's Peel Dryer located at the facility in Frostproof, Polk County, Florida.

I recommend your approval and signature.

SS/pr

  
Attachment



# The Citrus Hill Manufacturing Company

P.O. BOX 2000, FROSTPROOF, FLORIDA 33843

RECEIVED  
August 21, 1990  
AUG 23 1990

DER - BAQM

Mr. C. H. Fancy, P.E.  
Chief, Bureau of Air Quality Management  
Twin Tower Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

Re: Amendments to Permits, A053-175729  
A053-175727  
A053-175728

Dear Mr. Fancy:

This letter is sent requesting an amendment to the Specific Conditions of the referenced permits to allow The Citrus Hill Manufacturing Company to burn waste oil as a fuel in those sources.

Recently, we received operating permits for the above referenced sources and would like the ability to burn non-hazardous waste oil in them. Our company generates approximately 5M gallons waste oil annually from an automotive service station and from refrigeration system compressors.

All samplings of the oil have indicated it as being non-hazardous in characteristics as reflected in the attached analysis.

If there is need of additional information or if there are any questions of this request, please contact me at (813) 635-2211.

Sincerely,

Kenneth J. Ballard  
Environmental Manager

KJB:RFS  
0381R

cc: m. Baig  
B. Thomas, SW Dist

# PEMBROKE LABORATORIES, INC.

Mailing Address: 528 Gooch Rd., Ft. Meade, FL. 33841

Citrus Hill Mfg. Co.  
P O Box 2000  
Frostproof, FL 33834

Date Received: 10-27-89

Date Reported: 11-15-89

Attn: Glenda Ellis

PO #CH10614

Lab Number

MC-9597

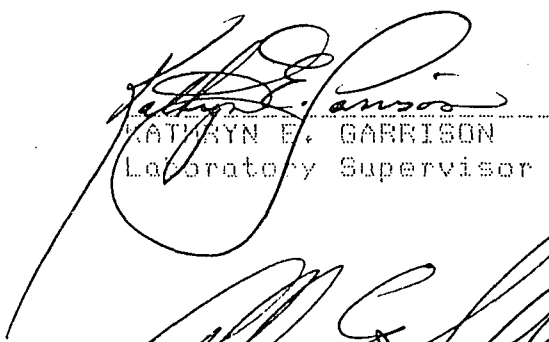
Sample I.D.


Waste Oil Sample

Arsenic	mg/Kg	0.3
Cadmium	mg/Kg	1.4
Chromium	mg/Kg	3.0
Lead	mg/Kg	3.1
Flash Point	oC	>60.
Total Halogens	ppm	<10.

Thank you for this opportunity to serve you!

Respectfully submitted,

  
KATHRYN E. GARRISON  
Laboratory Supervisor

  
ALLAN E. SCHREIBER  
Vice President

Laboratory I.D. 84172



P 938 762 817

**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

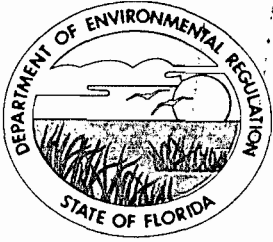
PS Form 3800, June 1985

Sent to Mr. W. K. Miller, Citrus Hill	
Street and No. P. O. Box 2000	
P.O. State and ZIP Code Frostproof, FL 33843	
Postage	S
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	S
Postmark or Date Mailed: 1-26-90 Permit: AC 53-125508	

**SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 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 additional service(s) requested.

1.  Show to whom delivered, date, and addressee's address. (Extra charge)      2.  Restricted Delivery (Extra charge)

<p>3. Article Addressed to: Mr. W. K. Miller The Citrus Hill Mfg. Company P. O. Box 2000 Frostproof, FL 33843</p>	<p>4. Article Number P 938 762 817</p> <p>Type of Service:  <input type="checkbox"/> Registered      <input type="checkbox"/> Insured  <input checked="" type="checkbox"/> Certified      <input type="checkbox"/> COD  <input type="checkbox"/> Express Mail      <input type="checkbox"/> Return Receipt for Merchandise</p> <p>Always obtain signature of addressee or agent and <b>DATE DELIVERED.</b></p>
<p>5. Signature -- Address X</p>	<p>8. Addressee's Address (ONLY if requested and fee paid)</p>
<p>6. Signature -- Agent X</p> <p><i>Sapp</i></p>	
<p>7. Date of Delivery 1-29-90</p>	



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
NOTICE OF PERMIT

Mr. W. K. Miller  
The Citrus Hill Manufacturing Company  
P. O. Box 2000  
Frostproof, Florida 33843

January 24, 1990

Enclosed is construction permit No. AC 53-125508 for The Citrus Hill Manufacturing Company's existing peel dryer at their facility in Frostproof, Polk County, Florida. This permit is issued pursuant to Section 403, Florida Statutes.

Any party to this permit has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this permit is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

C. H. Fancy, P.E.  
Chief  
Bureau of Air Regulation

Copy furnished to:

B. Thomas, SW District

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on 1-26-90.

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
§120.52(9), Florida Statutes, with  
the designated Department Clerk,  
receipt of which is hereby  
acknowledged.

Kim Ober  
Clerk

1-26-90  
Date

Final Determination

The Citrus Hill Manufacturing Company  
Frostproof, Polk County  
Florida

Citrus Peel Dryer  
with  
Waste Heat Evaporator

Permit Number: AC 53-125508

Florida Department of Environmental Regulation  
Division of Air Resources Management  
Bureau of Air Regulation

January 12, 1990

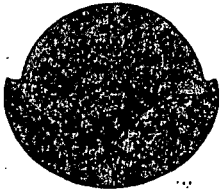
## Final Determination

The Citrus Hill Manufacturing Company's application for a modification of their construction permit for the citrus peel dryer at the Frostproof facility, in Polk County, Florida, has been reviewed by the Bureau of Air Regulation.

Public Notice of the Department's Intent to Issue the permit was published in The Ledger on December 20, 1989.

Copies of the Preliminary Determination have been available for public inspection at the Department's Southwest District office in Tampa, and the Bureau of Air Regulation office in Tallahassee.

Since no comments were received in response to the Public Notice, the final action of the Department is to issue the permit as proposed in the Preliminary Determination with a new expiration date.



# The Citrus Hill Manufacturing Company

P.O. BOX 2000, FROSTPROOF, FLORIDA 33843

January 2, 1990

RECEIVED

JAN 05 1990

DER - BAQM

Mr. C. H. Fancy, P. E.  
Chief, Bureau of Air Quality Management  
Department of Environmental Regulation  
Twin Tower Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

Re: Permit Modification for Citrus Peel Dryer  
AC53-125508

Dear Mr. Fancy:

As stated in Section 403.5 F.S. and DER Rule 17-103.150 F.A.C., I have enclosed the proof of publication of the "Notice of Intent to Issue" for the above referenced Permit No. AC53-125508. I apologize for the lateness of the article's arrival to you. The ad appeared in the newspaper on December 20, 1989, and I received the affidavit on December 28.

If I can be of further assistance or if there are questions please contact me at (813) 635-2211.

Sincerely,

Kenneth J. Ballard  
Environmental Manager

KJB/lsm  
0339R

cc: P. Paval  
B. Thomas, SW Dist

# AFFIDAVIT OF PUBLICATION

## THE LEDGER Lakeland, Polk County, Florida

Case No. ....

STATE OF FLORIDA )  
COUNTY OF POLK )

Before the undersigned authority personally appeared Stephen DeWitt, who on oath says that he is Controller of The Ledger, a daily newspaper published at Lakeland in Polk County, Florida; that the attached copy of advertisement, being a .....

..... Notice of Intent .....

..... in the matter of .....

..... Modify Permit .....

..... in the .....

..... Court, was published in said newspaper in the Issues of .....

..... December 20, 1989 .....

Affiant further says that said The Ledger is a newspaper

State of Florida  
Department of Environmental Regulation  
Notice of Intent to Issue

The Department of Environmental Regulation hereby gives notice of its intent to issue a modified permit to the Citrus Hill Manufacturing Company, P.O. Box 2000, Frostproof, Florida 33843 for the Citrus Peel Dryer with Waste Heat Evaporator, at Citrus Hill's Frostproof facility in Polk County, Florida. A revision of Best Available Control Technology (BACT) was not required. The Department is issuing this intent to issue for the reasons stated in the Technical Evaluation and Preliminary Determination dated November 16, 1989.

A person 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 contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time filing. Failure to file a petition 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.

The Petition shall contain the following information:

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner, if any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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 Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 285.207, F.A.C.

The application is available for public inspection.



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

**PERMITTEE:**  
The Citrus Hill  
Manufacturing Company  
P. O. Box 2000  
Frostproof, FL 33843

Permit Number: AC 53-125508  
Expiration Date: July 1, 1990  
County: Polk  
Latitude/Longitude: 27° 44' 22"N  
81° 31' 58"W

Project: Citrus Peel Dryer &  
Waste Heat Evaporator

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 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 permitting of a Citrus Peel Dryer designed to evaporate a maximum of 60,000 lbs/hr of water, fired on natural gas or 1% sulfur content No. 6 fuel oil, at a maximum rate of 90 MMBtu/hr. The dryer, connected to a Waste Heat Evaporator designed to evaporate 90,000 lbs/hr of water, processes a maximum of 92,000 lbs/hr of pressed peel at about 70% moisture (process input rate). The maximum production rate yields 32,500 lbs/hr dried peel at about 15% moisture. The source is located at Citrus Hill's existing facility in Frostproof, Polk County, Florida.

Attachments are listed below:

1. Citrus Hill's application package dated October 6, 1986.
2. DER's letter of incompleteness dated November 7, 1986.
3. Citrus Hill's name change letter, dated March 5, 1987.
4. Citrus Hill's additional information dated May 11, 1987.
5. DER's response dated June 25, 1987.
6. Citrus Hill's amendment dated September 1, 1987.
7. DER's letter dated October 2, 1987.
8. Citrus Hill's letter dated October 26, 1987.
9. DER's Preliminary Determination dated January 6, 1988.
10. Citrus Hill's letter dated May 3, 1988.
11. Citrus Hill's letter dated May 18, 1988.
12. DER's Revised Preliminary Determination dated July 28, 1988.
13. Citrus Hill's letter dated August 15, 1988.
14. Citrus Hill's letter dated February 9, 1989.
15. Citrus Hill's letter dated June 7, 1989.
16. Citrus Hill's letter dated September 7, 1989.
17. DER's Preliminary Determination dated November 16, 1989.



PERMITTEE:  
The Citrus Hill Manufacturing Co.

Permit Number: AC 53-125508  
Expiration Date: July 1, 1990

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 therefor 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:  
The Citrus Hill Manufacturing Co.

Permit Number: AC 53-125508  
Expiration Date: July 1, 1990

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 non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

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.

PERMITTEE:  
The Citrus Hill Manufacturing Co.

Permit Number: AC 53-125508  
Expiration Date: July 1, 1990

**GENERAL CONDITIONS:**

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 a Determination of Best Available Control Technology (BACT).

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.

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

**PERMITTEE:**  
The Citrus Hill Manufacturing Co.

**Permit Number:** AC 53-125508  
**Expiration Date:** July 1, 1990

**GENERAL CONDITIONS:**

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. This permit shall replace the previous permit issued with the same number for the Citrus Peel Dryer and Waste Heat Evaporator.
2. The Citrus Peel Dryer shall operate for a maximum of 4942 hours annually (typically between November and June).
3. The maximum heat input to the dryer shall not exceed 90 MMBtu/hr firing up to 90,000 cu. ft/hr of natural gas, or 580 gals/hr of No. 6 fuel oil.
4. Only natural gas or 1% sulfur content No. 6 fuel oil shall be fired in this dryer. Prior Departmental approval shall be obtained before firing any other fuel.

PERMITTEE:  
The Citrus Hill Manufacturing Co.

Permit Number: AC 53-125508  
Expiration Date: July 1, 1990

SPECIFIC CONDITIONS:

5. The projected emissions from the Citrus Peel Dryer, based on a heat input rate of 90 MMBtu/hr, the process weight table as listed in Chapter 17-2.610 of the Florida Administrative Code, and 4942 annual operating hours, are tabulated below for inventory purposes.

Pollutant	Emissions			
	Natural Gas		Fuel Oil	
	lb/hr	TPY	lb/hr	TPY
NO <sub>x</sub>	20.7	52.0	46.4	114.7
CO	1.5	3.8	2.3	5.7
PM/PM <sub>10</sub>	32.0	79.0	32.0	79.0
SO <sub>2</sub>	0.05	0.2	91.1	225.0
VOC	0.3	0.7	1.7	4.3

6. Visible emissions shall not exceed 20% opacity.

7. Compliance shall be determined by DER Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources. The Department may require additional tests to be conducted should they be warranted by poor compliance test results.

8. Good combustion practices shall be implemented at all times, as control measures for the pollutants emitted as products of combustion.

9. Any change in the method of operation, fuels, equipment or operating hours shall be submitted for approval to DER's Southwest District office.

10. DER's Southwest District office shall be notified in writing a minimum of 15 days prior to source testing. Written reports of the tests shall be submitted to the District office within 45 days of test completion.

11. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).

PERMITTEE:  
The Citrus Hill Manufacturing Co.

Permit Number: AC 53-125508  
Expiration Date: July 1, 1990

**SPECIFIC CONDITIONS:**

12. An application for an operation permit must be submitted to DER's Southwest District office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rule 17-4.220).

Issued this 17 day  
of January, ~~1989~~ 1990

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
Dale Twachtman, Secretary

Attachments Available Upon Request



Best Available Copy

State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee	
To: _____	Location: _____
To: _____	Location: _____
To: _____	Location: _____
From: _____	Date: _____

# Interoffice Memorandum

TO: Dale Twachtmann  
 FROM: Steve Smallwood *SS*  
 DATE: January 16, 1990  
 SUBJ: Approval of Construction Permit for  
 The Citrus Hill Manufacturing Company  
 Citrus Peel Dryer Permit, AC 53-125508

*Please call  
 Patty Adams  
 when signed  
 8-1344*

Attached for your approval and signature is a construction permit prepared by the Bureau of Air Regulation for Citrus Hill Manufacturing Company's existing citrus peel dryer located at Citrus Hill's Frostproof facility in Polk County, Florida.

No comments were received in response to the Public Notice of the Department's Intent to Issue the permit.

Day 90, after which the permit will be issued by default, is February 5, 1990.

I recommend your approval and signature.

SS/plm

Attachment

**RECEIVED**

JAN 16 1990

Office of Secretary





State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee	
To: _____	Location: _____
To: _____	Location: _____
To: _____	Location: _____
From: _____	Date: _____

# Interoffice Memorandum

TO: Dale Twachtmann

*fr* FROM: Steve Smallwood *ctj*

DATE: January 29, 1990

SUBJ: Approval of Construction Permit Amendment  
Citrus Hill Manufacturing Company  
Peel Dryer and Waste Heat Evaporator, AC 53-125508

*Please call  
Patty Adams  
when signed  
4-1344*

Attached for your approval and signature is a construction permit amendment prepared by the Bureau of Air Regulation for Citrus Hill Manufacturing Company's Peel Dryer located at the facility in Frostproof, Polk County, Florida.

I recommend your approval and signature.

SS/pr

Attachment

**RECEIVED**  
JAN 29 1990

Office of the Secretary

P 274 010 480

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

\* U.S.G.P.O. 1985-480-794

PS Form 3800, June 1985

Mr. W.K. Miller	
<del>The Citrus Hill Manufacturing</del>	
Street and No. P.O. Box 2000	
P.O. State and ZIP Code Frostproof, FL 33843	
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	
Mailed: 01-07-83	
Permits: AC 53-125831, -125990, -125508	

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.

- Show to whom, date and address of delivery.
- Restricted Delivery.

3. Article Addressed to: Mr. W.K. Miller  
The Citrus Hill Manufacturing Co.  
P.O. Box 2000  
Frostproof, FL 33843

4. Type of Service:	Article Number
<input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	P 274 010 480

Always obtain signature of addressee or agent and **DATE DELIVERED.**

- Signature - Addressee  
X
- Signature - Agent  
X *R. Sapp*
- Date of Delivery  
*1-12-83*
- Addressee's Address (ONLY if requested and fee paid)

*file*

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING  
2600 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ  
GOVERNOR  
DALE TWACHTMANN  
SECRETARY

January 6, 1988

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. W. K. Miller  
The Citrus Hill Manufacturing Co.  
Post Office Box 2000  
Frostproof, Florida 33843

Dear Mr. Miller:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permits for Citrus Hill's Boilers Nos. 1 and 2, and Citrus Peel Dryer with Waste Heat Evaporator at the existing Citrus Hill facility in Frostproof, Polk County, Florida.

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/ks

Attachments

cc: Jim McDonald, SW District  
Robert Covington, P.E.

*file copy*



# The Citrus Hill Manufacturing Company

P.O. BOX 2000, FROSTPROOF, FLORIDA 33843

January 2, 1990

RECEIVED

JAN 05 1990

DER - BAQM

Mr. C. H. Fancy, P. E.  
Chief, Bureau of Air Quality Management  
Department of Environmental Regulation  
Twin Tower Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

Re: Permit Modification for Citrus Peel Dryer  
AC53-125508

Dear Mr. Fancy:

As stated in Section 403.5 F.S. and DER Rule 17-103.150 F.A.C., I have enclosed the proof of publication of the "Notice of Intent to Issue" for the above referenced Permit No. AC53-125508. I apologize for the lateness of the article's arrival to you. The ad appeared in the newspaper on December 20, 1989, and I received the affidavit on December 28.

If I can be of further assistance or if there are questions please contact me at (813) 635-2211.

Sincerely,

Kenneth J. Ballard  
Environmental Manager

KJB/lsm  
0339R

*cc: P. Ravel  
B. Thomas, SW Diet } 1-2-90 am*

# AFFIDAVIT OF PUBLICATION

## THE LEDGER Lakeland, Polk County, Florida

Case No.....

STATE OF FLORIDA)  
COUNTY OF POLK )

Before the undersigned authority personally appeared Stephen DeWitt, who on oath says that he is Controller of The Ledger, a daily newspaper published at Lakeland in Polk County, Florida; that the attached copy of advertisement, being a .....

..... Notice of Intent .....

..... in the matter of .....

..... Modify Permit .....

..... in the .....

..... Court, was published in said newspaper in the issues of .....

..... December 20; 1989 .....

Affiant further says that said The Ledger is a newspaper published at Lakeland, in said Polk County, Florida, and that the said newspaper has heretofore been continuously published in said Polk County, Florida, daily, and has been entered as second class matter at the post office in Lakeland, in said Polk County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

Signed.....

*Stephen P. DeWitt*  
Controller

Sworn to and subscribed before me this..... 22nd .....

..... day of .....

December A.D. 19 89 .....

*Barbara Thigpen*  
Notary Public

NOTARY PUBLIC, STATE OF FLORIDA.  
COMMISSION EXPIRES; NOV. 11, 1990.  
BONDED THRU NOTARY PUBLIC UNDERWRITERS

### State of Florida Department of Environmental Regulation Notice of Intent to Issue

The Department of Environmental Regulation hereby gives notice of its intent to issue a modified permit to The Citrus Hill Manufacturing Company, P. O. Box 2000, Frostproof Florida 33843, for the Citrus Peel Dryer with Waste Heat Evaporator, at Citrus Hill's Frostproof facility in Polk County, Florida. A revision of Best Available Control Technology (BACT) was not required. The Department is issuing this intent to issue for the reasons stated in the Technical Evaluation and Preliminary Determination dated November 16, 1989.

A person 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 contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time filing. Failure to file a petition 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.

The Petition shall contain the following information:

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner, if any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

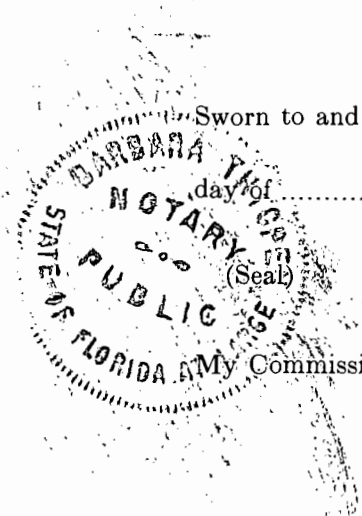
(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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 Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 285.207, F.A.C.

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:  
Department of Environmental Regulation  
Bureau of Air Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400  
Department of Environmental Regulation  
Southwest District Office  
4520 Oak Fair Boulevard  
Tampa, Florida 33610-7347

Any person may send written comments on the proposed action to Mr. Bill Thomas 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.

K-703 - 12-20-1989



P 938 762 768

**RECEIPT FOR CERTIFIED MAIL**

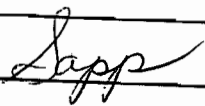
NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

PS Form 3800, June 1985

Sent to Mr. W. K. Miller, Citrus Hill	
Street and No. P. O. Box 2000	
P.O., State and ZIP Code Frostproof, FL 33843	
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 Mailed: 11-30-89 Permit: AC 53-125831, -990 -125508	

**SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 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 additional service(s) requested.

1.  Show to whom delivered, date, and addressee's address. (Extra charge)  
2.  Restricted Delivery (Extra charge)

3. Article Addressed to: Mr. W. K. Miller The Citrus Hill Mfg. Co. P. O. Box 2000 Frostproof, FL 33843	4. Article Number P 938 762 768
5. Signature - Address X	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
6. Signature - Agent X 	Always obtain signature of addressee or agent and DATE DELIVERED.
7. Date of Delivery	8. Addressee's Address (ONLY if requested and fee paid)



## Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

November 28, 1989

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. W. K. Miller  
The Citrus Hill Manufacturing Company  
Post Office Box 2000  
Frostproof, Florida 33843

Dear Mr. Miller:


Re: No. 6 Fuel Oil Usage Frostproof Facility  
AC 53-125831 (Erie City Boiler)  
AC 53-125990 (Keeler Boiler)  
AC 53-125508 (Citrus Peel Dryer)

The Department has evaluated your request dated November 14, 1989, for additional time to use up the approximately 40,000 gallons of No. 6 fuel oil left over at your facility after the above permits were modified to restrict the sulfur content of the fuel oil to 1 percent.

In accordance with your request, the Department will allow you an additional month, from November 30 to December 30, 1989, to get the oil supply system properly operational and to use up the left over No. 6 fuel oil. During this period you shall comply with all the provisions of the previous permits AO 53-52886, -81687, and -52855. Once that fuel is used up, you shall comply with the 1% sulfur content restriction on the fuel oil being fired.

At the time you conduct the initial compliance tests for the three sources mentioned above, you shall conduct a fuel analysis to determine the sulfur content in accordance with ASTM D 396-76.

Sincerely,

  
Dale Twachtmann  
Secretary

DT/pr

cc: B. Thomas, SW District



RECEIVED

State of Florida 28, 1989  
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee	
To: _____	Location: _____
To: _____	Location: _____
To: _____	Location: _____
From: _____	Date: _____

# Interoffice Memorandum

TO: Dale Twachtmann

for FROM: Steve Smallwood *St. Smallwood*

SUBJ: Approval of No. 6 Fuel Oil Usage for Citrus Hill Manufacturing Inc.

DATE: November 28, 1989

Attached for your approval and signature is a letter to Citrus Hill Manufacturing Company Inc., authorizing the company to use up the remaining No. 6 fuel oil at their facility in Frostproof, Polk County, Florida.

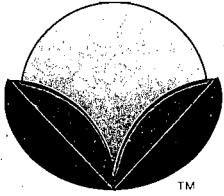
I recommend your approval and signature.

SS/PR/s

Attachments

*Please call  
Patty Adams  
when signed  
8-1344*





# The Citrus Hill Manufacturing Company

P.O. BOX 2000, FROSTPROOF, FLORIDA 33843

RECEIVED  
November 14, 1989

NOV 17 1989

DER-BAQM

Mr. C. H. Fancy, P. E.  
Chief, Bureau of Air Quality Management  
Department of Environmental Regulation  
Twin Tower Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

Re: No. 6 Fuel Oil Usage, Frostproof Facility  
AC53-125831 (Erie City Boiler)  
AC53-125990 (Keeler Boiler)  
AC53-125508 (Citrus Peel Dryer)


Dear Mr. Fancy:

On October 24, 1989, we were granted permission from the department to burn approximately 40,000 gallons of No. 6 fuel oil with 2 percent sulfur content between the period of November 6 to November 20, 1989. This oil having been in our tanks and system for more than ten years and due to the above referenced permits being modified restricting the sulfur content to 1 percent sulfur, we were granted this permission. While preparing to run the fuel oil in our system, it has become apparent we cannot complete the project in the above mentioned time schedule.

The inactivity of the oil system has taken it's toll on the equipment. Since starting the project we had to upgrade the oil combustion safeguards on the Keeler boiler. We have replaced approximately 100 feet of the oil return line to the tank. Also, availability of fruit input has not been such as to allow the plant to run on a sustained basis for more than a few hours at a time. Consequently, we have not been successful in consuming the fuel oil in the time span granted us earlier. It is for the aforementioned reasons we request an extension of two additional weeks or until December 4, 1989, to complete the project as originally planned.

It is anticipated that the future incoming fruit flows will increase so as to allow the plant to operate on a sustained basis and enable us to consume the fuel oil with the additional requested time.

If there are any questions regarding this request, please contact me at (813) 635-2211.

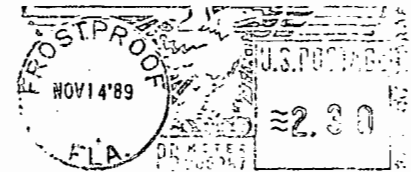
Sincerely,  


Kenneth J. Ballard,  
Environmental Manager

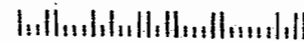
KJB/lsm  
0337R

**The Citrus Hill Manufacturing Company**

P.O. BOX 2000  
FROSTPROOF, FLORIDA 33843



Mr. C. H. Fancy, P. E.  
Chief, Bureau of Air Quality Management  
Department of Environmental Regulation  
Twin Tower Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400



P 938 762 756

**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

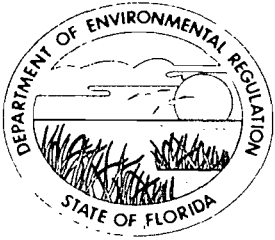
Sent to Mr. W. K. Miller, Citrus Hill	
Street and No. P.O. Box 2000	
P.O., State and ZIP Code Frostproof, FL 33843	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date Mailed: 11-20-89 Permit: AC 53-125508	

PS Form 3800, June 1985

**SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 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 additional service(s) requested.

1.  Show to whom delivered, date, and addressee's address.      2.  Restricted Delivery (Extra charge)

<p>3. Article Addressed to:</p> <p>Mr. W. K. Miller The Citrus Hill Manufacturing Co. P. O. Box 2000 Frostproof, FL 33843</p>	<p>4. Article Number</p> <p>P 938 762 756</p> <p>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      <input type="checkbox"/> Return Receipt for Merchandise</p> <p>Always obtain signature of addressee or agent and <u>DATE DELIVERED</u>.</p>
<p>5. Signature — Address</p> <p>X</p>	<p>8. Addressee's Address (ONLY if requested and fee paid)</p>
<p>6. Signature — Agent</p> <p>X</p> <p><i>Sapp</i></p>	
<p>7. Date of Delivery</p> <p>11-27-89</p>	



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary

November 16, 1989

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. W. K. Miller  
The Citrus Hill Manufacturing Company  
P. O. Box 2000  
Frostproof, Florida 33843

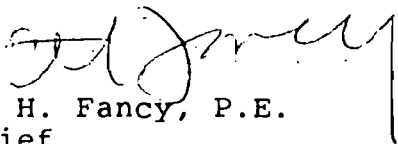
Dear Mr. Miller:

Re: Permit Modification for Citrus Hill's Peel Dryer  
Number: AC 53-125508

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permit for Citrus Hill's Peel Dryer located at Citrus Hill's facility in Frostproof, Polk County, Florida.

Please submit any written comments you wish to have considered concerning the Department's proposed action to Mr. Bill Thomas of the Bureau of Air Regulation.

Sincerely,

  
C. H. Fancy, P.E.  
Chief  
Bureau of Air Regulation

CHF/pr

Attachments

cc: B. Thomas, SW District

BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of  
Application for Permit by:

The Citrus Hill Manufacturing Co.  
P. O. Box 2000  
Frostproof, FL 33843

DER File No. AC 53-125508

---

INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its intent to issue a modified permit (copy attached) for the 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, The Citrus Hill Manufacturing Company, applied on February 17, 1989, to the Department of Environmental Regulation for a modification of the construction permit for the Citrus Peel Dryer with Waste Heat Evaporator at Citrus Hill's Frostproof facility in Polk 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 Department has determined that an air construction permit is required for the proposed work.

Pursuant to Section 403.815, F.S. and DER Rule 17-103.150, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue Permit. The notice shall be published one time only within 30 days, in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. The applicant shall provide proof of publication to the Department, at the address specified within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

The Department will issue the permit with the attached conditions unless a petition for an administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, F.S.

A person 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 contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant and the parties listed below must be filed within 14 days of receipt of this intent. Petitions filed by other persons must be filed within 14 days of publication of the public notice or within 14 days of receipt of this intent, whichever first occurs. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition 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.

The Petition shall contain the following information;

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner, if any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

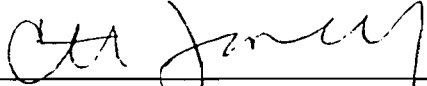
(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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 notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the applicant have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office in General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person

has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

Executed in Tallahassee, Florida

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
\_\_\_\_\_  
C. H. Fancy, P.E.  
Chief  
Bureau of Air Regulation

Copies furnished to:

B. Thomas, SW District

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on 11-20-89.

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
§120.52(9), Florida Statutes, with  
the designated Department Clerk,  
receipt of which is hereby  
acknowledged.

Kym Jaber  
Clerk

11-20-89  
Date



State of Florida  
Department of Environmental Regulation  
Notice of Intent to Issue

The Department of Environmental Regulation hereby gives notice of its intent to issue a modified permit to The Citrus Hill Manufacturing Company, P. O. Box 2000, Frostproof, Florida 33843, for the Citrus Peel Dryer with Waste Heat Evaporator, at Citrus Hill's Frostproof facility in Polk County, Florida. A revision of Best Available Control Technology (BACT) was not required. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination dated November 16, 1989.

A person 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 contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time filing. Failure to file a petition 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.

The Petition shall contain the following information;

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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 Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

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:

Department of Environmental Regulation  
Bureau of Air Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Department of Environmental Regulation  
Southwest District Office  
4520 Oak Fair Boulevard  
Tampa, Florida 33610-7347

Any person may send written comments on the proposed action to Mr. Bill Thomas 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.

Technical Evaluation  
and  
Preliminary Determination

The Citrus Hill Manufacturing Company  
Frostproof, Polk County  
Florida

Citrus Peel Dryer  
with  
Waste Heat Evaporator

Permit Number: AC 53-125508

Florida Department of Environmental Regulation  
Division of Air Resources Management  
Bureau of Air Regulation

November 16, 1989

### Technical Evaluation

The Department received a permit modification request dated February 9, 1989, for a revision of the particulate matter (PM) emission limit for the Citrus Peel Dryer with a Waste Heat Evaporator. This application proposes to establish PM emissions inadvertently omitted in the issuing of the current construction permit.

On September 26, 1988, DER issued construction permits to Citrus Hill for Boiler No.1 (Erie City), Boiler No. 2 (Keeler), and the Citrus Peel Dryer with a Waste Heat Evaporator. These permits were issued to allow the use of fuel oil on a normal basis (previously allowed on a standby basis only) for the three existing sources. The application which had been submitted for the peel dryer did not address PM emissions from the peel drying process. It should be noted that the PM emissions from the peel drying process are more than double the emissions from the fuel oil combustion. Since the emissions documented in that application, and consequently permitted, were for the PM emissions from the burning of natural gas and fuel oil only, Citrus Hill has now submitted data to substantiate the extent of the total PM emissions from the peel dryer.

DER will modify the current permit by addressing the process PM emissions. The PM emission limit will be revised in accordance with the provisions of the process weight table in Chapter 17-2.610 of the Florida Administrative Code. The process weight table does not state clearly that water (moisture in the peel) should not be included in determining the process input rate and therefore there are differences in interpretation and calculation of the allowable PM emission rate. In this instance the Department will use the data provided by Citrus Hill. The applicant has provided test data in the correspondence dated February 9, June 7, and September 7, 1989, to justify the requested emission limits.

The increase in the PM emissions requires a re-evaluation of the project for changes in source operation, rule applicability, emission limitations, BACT, and ambient air impacts. The Department has determined that the revised emissions do not significantly alter any of the aspects of the earlier project review. DER will revise the PM emission limitations to 32 lb/hr, based on a process input rate of 46 TPH (92,000 lb/hr) of pressed peel at about 70% moisture. This rate of input results in 32,500 lb/hr of dried peel at about 15% moisture. The fuel input corresponds to 90 MMBtu/hr heat input.

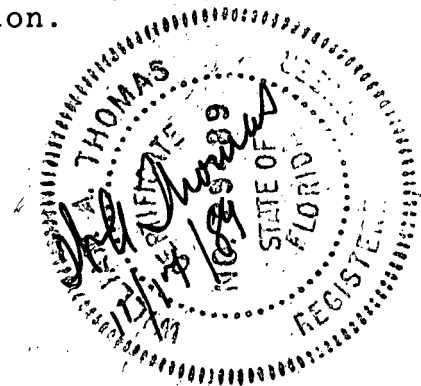
Furthermore, the applicant has provided DER with more accurate process flow numbers and so these will replace the numbers in the current process description.

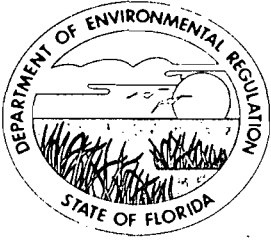
The BACT determination for the previous modification limited the sulfur content of the fuel oil fired in the Citrus Peel Dryer, Boiler No. 1, and Boiler No. 2. The BACT addressed emissions from fuel burning, in accordance with F.A.C. Rule 17-2.600(6), Fossil Fuel Fired Steam Generators with less than 250 MMBtu/hr heat input. Since there is no change in the fuels allowed, the BACT determination will remain unchanged.

The ambient air quality impacts resulting from this modification are no different than the conditions existing at the time of Citrus Hill's previous modification request. As stated above, this permit modification will address the PM emissions, from the existing peel drying process, inadvertently omitted in the current permit. Therefore, there will be no change in the PM ambient air impacts.

### Conclusion

Based on the information provided by Citrus Hill, the Department has reasonable assurance that the revision of the PM emissions from the Citrus Peel Dryer with a Waste Heat Evaporator at Citrus Hill's Frostproof facility, as described in this evaluation, and subject to the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, PSD increment, or any other technical provision of Chapter 17-2 of the Florida Administrative Code, except for the differences in the process weight rule interpretation.





## Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:  
The Citrus Hill  
Manufacturing Company  
P. O. Box 2000  
Frostproof, FL 33843

Permit Number: AC 53-125508  
Expiration Date: May 1, 1990  
County: Polk  
Latitude/Longitude: 27° 44' 22"N  
81° 31' 58"W  
Project: Citrus Peel Dryer &  
Waste Heat Evaporator

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 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 permitting of a Citrus Peel Dryer designed to evaporate a maximum of 60,000 lbs/hr of water, fired on natural gas or 1% sulfur content No. 6 fuel oil, at a maximum rate of 90 MMBtu/hr. The dryer, connected to a Waste Heat Evaporator designed to evaporate 90,000 lbs/hr of water, processes a maximum of 92,000 lbs/hr of pressed peel at about 70% moisture (process input rate). The maximum production rate yields 32,500 lbs/hr dried peel at about 15% moisture. The source is located at Citrus Hill's existing facility in Frostproof, Polk County, Florida.

Attachments are listed below:

1. Citrus Hill's application package dated October 6, 1986.
2. DER's letter of incompleteness dated November 7, 1986.
3. Citrus Hill's name change letter, dated March 5, 1987.
4. Citrus Hill's additional information dated May 11, 1987.
5. DER's response dated June 25, 1987.
6. Citrus Hill's amendment dated September 1, 1987.
7. DER's letter dated October 2, 1987.
8. Citrus Hill's letter dated October 26, 1987.
9. DER's Preliminary Determination dated January 6, 1988.
10. Citrus Hill's letter dated May 3, 1988.
11. Citrus Hill's letter dated May 18, 1988.
12. DER's Revised Preliminary Determination dated July 28, 1988.
13. Citrus Hill's letter dated August 15, 1988.
14. Citrus Hill's letter dated February 9, 1989.
15. Citrus Hill's letter dated June 7, 1989.
16. Citrus Hill's letter dated September 7, 1989.
17. DER's Preliminary Determination dated November 16, 1989.

PERMITTEE:  
The Citrus Hill Manufacturing Co.

Permit Number: AC 53-125508  
Expiration Date: May 1, 1990

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 therefor 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:  
The Citrus Hill Manufacturing Co.

Permit Number: AC 53-125508  
Expiration Date: May 1, 1990

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 non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

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.



PERMITTEE:  
The Citrus Hill Manufacturing Co.

Permit Number: AC 53-125508  
Expiration Date: May 1, 1990

GENERAL CONDITIONS:

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 a Determination of Best Available Control Technology (BACT).

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.
- 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

PERMITTEE:  
The Citrus Hill Manufacturing Co.

Permit Number: AC 53-125508  
Expiration Date: May 1, 1990

**GENERAL CONDITIONS:**

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. This permit shall replace the previous permit issued with the same number for the Citrus Peel Dryer and Waste Heat Evaporator.
2. The Citrus Peel Dryer shall operate for a maximum of 4942 hours annually (typically between November and June).
3. The maximum heat input to the dryer shall not exceed 90 MMBtu/hr firing up to 90,000 cu. ft/hr of natural gas, or 580 gals/hr of No. 6 fuel oil.
4. Only natural gas or 1% sulfur content No. 6 fuel oil shall be fired in this dryer. Prior Departmental approval shall be obtained before firing any other fuel.

PERMITTEE:  
The Citrus Hill Manufacturing Co.

Permit Number: AC 53-125508  
Expiration Date: May 1, 1990

SPECIFIC CONDITIONS:

5. The projected emissions from the Citrus Peel Dryer, based on a heat input rate of 90 MMBtu/hr, the process weight table as listed in Chapter 17-2.610 of the Florida Administrative Code, and 4942 annual operating hours, are tabulated below for inventory purposes.

Pollutant	Emissions			
	Natural Gas		Fuel Oil	
	lb/hr	TPY	lb/hr	TPY
NO <sub>x</sub>	20.7	52.0	46.4	114.7
CO	1.5	3.8	2.3	5.7
PM/PM <sub>10</sub>	32.0	79.0	32.0	79.0
SO <sub>2</sub>	0.05	0.2	91.1	225.0
VOC	0.3	0.7	1.7	4.3

6. Visible emissions shall not exceed 20% opacity.

7. Compliance shall be determined by DER Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources. The Department may require additional tests to be conducted should they be warranted by poor compliance test results.

8. Good combustion practices shall be implemented at all times, as control measures for the pollutants emitted as products of combustion.

9. Any change in the method of operation, fuels, equipment or operating hours shall be submitted for approval to DER's Southwest District office.

10. DER's Southwest District office shall be notified in writing a minimum of 15 days prior to source testing. Written reports of the tests shall be submitted to the District office within 45 days of test completion.

11. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).

PERMITTEE:  
The Citrus Hill Manufacturing Co.

Permit Number: AC 53-125508  
Expiration Date: May 1, 1990

**SPECIFIC CONDITIONS:**

12. An application for an operation permit must be submitted to DER's Southwest District office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rule 17-4.220).

Issued this \_\_\_\_\_ day  
of \_\_\_\_\_, 1989

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

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Dale Twachtman, Secretary

Attachments Available Upon Request

P 938 762 754

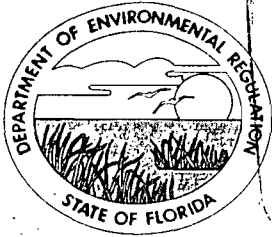
**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

PS Form 3800, June 1985

Sent to Mr. W. K. Miller, Citrus Hill	
Street and No. P. O. Box 2000	
P.O. State and ZIP Code Frostproof, FL 33843	
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 Mailed: 11-17-89 Permit: AC 53-125831 AC 53-125990	

<p>● <b>SENDER:</b> Complete items 1 and 2 when additional services are desired, and complete items 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 additional service(s) requested.</p> <p>1. <input type="checkbox"/> Show to whom delivered, date, and addressee's address. (Extra charge)      2. <input type="checkbox"/> Restricted Delivery (Extra charge)</p>	
<p>3. Article Addressed to: Mr. W. K. Miller The Citrus Hill Manufacturing Co. P. O. Box 2000 Frostproof, FL 33843</p>	<p>4. Article Number P 938 762 754</p> <p>Type of Service:  <input type="checkbox"/> Registered      <input type="checkbox"/> Insured  <input checked="" type="checkbox"/> Certified      <input type="checkbox"/> COD  <input type="checkbox"/> Express Mail      <input type="checkbox"/> Return Receipt for Merchandise</p> <p>Always obtain signature of addressee or agent and <u>DATE DELIVERED</u>.</p>
<p>5. Signature - Address X</p>	<p>8. Addressee's Address (ONLY if requested and fee paid)</p>
<p>6. Signature - Agent X <i>Lapp</i></p>	
<p>7. Date of Delivery <i>11-17-89</i></p>	



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

November 8, 1989

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. W. K. Miller  
The Citrus Hill Manufacturing Co.  
Post Office Box 2000  
Frostproof, FL 33843

Dear Mr. Miller:

Re: Amendment to Permit Nos. AC 53-125831 for Boiler No. 1 -  
Erie City and AC 53-125990 for Boiler No. 2 - Keeler

The Department has reviewed your request dated February 22, 1989, for extension of the expiration dates of the above mentioned permits.

The Department is in agreement with your requests and the following shall be changed and added to the permits:

Expiration Date Change:

From: June 1, 1989  
To: June 1, 1990

Specific Condition No. 6

From:

Compliance shall be determined by DER Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources. The Department may require additional tests to be conducted should they be warranted by poor compliance test results.

To:

Initial and annual compliance tests for VE shall be conducted using DER Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources. The Department may require additional tests to be conducted should they be warranted by poor compliance test results.

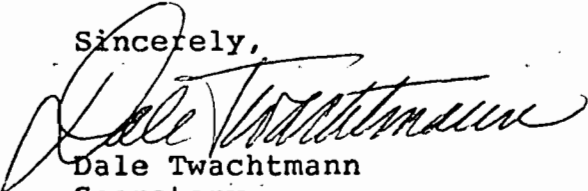
Attachment to be Added:

13. Citrus Hill's letter dated February 22, 1989.

Mr. W. K. Miller  
Page Two  
November 8, 1989

This letter must be attached to your construction permits mentioned above, and shall become part of those permits.

Sincerely,

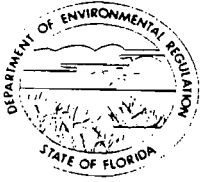


Dale Twachtmann  
Secretary

DT/ks

cc: B. Thomas, SW District





State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

RECEIVED  
NOV 10 1989

For Routing To Other Than The Addressee	
To: _____	Location: _____
To: _____	Location: _____
To: _____	Location: _____
From: _____	Date: _____

# Interoffice Memorandum

TO: Dale Twachtmann  
FROM: *J. C. Brown Jr.* Steve Smallwood  
DATE: November 7, 1989

SUBJ: Permit Expiration Date Extension  
Boiler 1, AC 53-125831; and Boiler 2, AC 53-125990  
Citrus Hill Manufacturing Company

Attached for your approval and signature is a permit expiration date extension prepared by the Bureau of Air Regulation for Citrus Hill's boilers at Frostproof, Polk County, Florida.

I recommend your approval and signature.

attachment

SS/pr

P 938 762 732

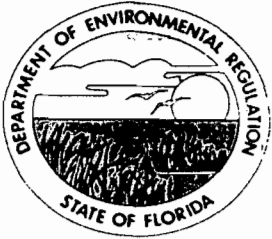
**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

PS Form 3800, June 1985

Sent to Mr. W. K. Miller, Citrus Hill	
Street and No. P. O. Box 2000	
P.O., State and ZIP Code Frostproof, FL 33843	
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 Mailed: 11-2-89 Permit: AC 53-125831, -990 -125508	

<p>● <b>SENDER:</b> Complete items 1 and 2 when additional services are desired, and complete items 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 additional service(s) requested.</p> <p>1. <input type="checkbox"/> Show to whom delivered, date, and addressee's address.      2. <input type="checkbox"/> Restricted Delivery (Extra charge)      (Extra charge)</p>	
<p>3. Article Addressed to: Mr. W. K. Miller The Citrus Hill Manufacturing Co. P. O. Box 2000 Frostproof, FL 33843</p>	<p>4. Article Number P 938 762 732</p> <p>Type of Service:  <input type="checkbox"/> Registered      <input type="checkbox"/> Insured  <input checked="" type="checkbox"/> Certified      <input type="checkbox"/> COD  <input type="checkbox"/> Express Mail      <input type="checkbox"/> Return Receipt for Merchandise</p> <p>Always obtain signature of addressee or agent and <b>DATE DELIVERED</b>.</p>
<p>5. Signature — Address X</p>	<p>8. Addressee's Address (ONLY if requested and fee paid)</p>
<p>6. Signature — Agent X</p> <p><i>Sapp</i></p>	
<p>7. Date of Delivery 11-6-89</p>	



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

October 24, 1989

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. W. K. Miller  
The Citrus Hill Manufacturing Company  
Post Office Box 2000  
Frostproof, Florida 33843

Dear Mr. Miller:

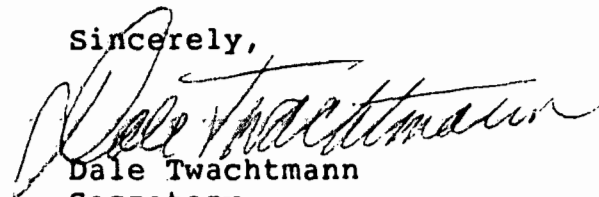
Re: No. 6 Fuel Oil Usage Frostproof Facility  
AC 53-125831 (Erie City Boiler)  
AC 53-125990 (Keeler Boiler)  
AC 53-125508 (Citrus Peel Dryer)

The Department has evaluated your request for using up the approximately 40,000 gallons of No. 6 fuel oil left over at your facility after the above permits were modified to restrict the sulfur content of the fuel oil to 1 percent.

In accordance with your request, the Department will allow you a two week period from November 6 to November 20, 1989, to use up the left over No. 6 fuel oil. During this two week period you shall comply with all the provisions of the previous permits AO 53-52886, -81687, and -52855. Once that fuel is used up, you shall comply with the 1% sulfur content restriction on the fuel oil being fired.

At the time you conduct the initial compliance tests for the three sources mentioned above, you shall conduct a fuel analysis to determine the sulfur content in accordance with ASTM D 396-76.

Sincerely,

  
Dale Twachtmann  
Secretary

DT/kt

cc: B. Thomas, SW District



State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee	
To: _____	Location: _____
To: _____	Location: _____
To: _____	Location: _____
From: _____	Date: _____

# Interoffice Memorandum

TO: Dale Twachtmann  
FROM: Steve Smallwood *[Signature]*  
SUBJ: Approval of No. 6 Fuel Oil Usage for Citrus Hill Manufacturing Inc.  
DATE: October 20, 1989

Attached for your approval and signature is a letter to Citrus Hill Manufacturing Company Inc., authorizing the company to use up the remaining No. 6 fuel oil at their facility in Frostproof, Polk County, Florida.

I recommend your approval and signature.

SS/PR/s

Attachments

*Please call  
Patty Adams  
when signed  
4-1344*



# The Citrus Hill Manufacturing Company

P.O. BOX 2000, FROSTPROOF, FLORIDA 33843

JUNE 7 1989  
**RECEIVED**

JUN 12 1989

DER-BAQM

Mr. Radeep Raval  
Bureau of Air Quality Management  
Department of Environmental Regulation  
2600 Blair Stone Road  
Twin Tower Office Building  
Tallahassee, FL 32301-8241

Re: Permit No. AC53-125508

Dear Mr. Raval:

Enclosed please find a copy of particulate emissions test summary for the Citrus Peel Dryer/Waste Heat Evaporator. This testing was completed on April 19, 1989.

Thank you for your attention in this matter and if there are further questions, please contact me at (813)635-2211.

Sincerely,

Kenneth J. Ballard  
Environmental Manager

KJB/tjr  
0325R

TABLE 1. PARTICULATE EMISSIONS TEST SUMMARY

Plant: Citrus Hill Manufacturing Company  
 Unit: Waste Heat Evaporator

	Run 1	Run 2	Run 3
Date of Run	4/19/89	4/19/89	4/19/89
Process Rate (TPH)	78.3	69.4	64.8
Start Time (24-hr. clock)	1052	1327	1525
End Time (24-hr. clock)	1155	1431	1630
Vol. Dry Gas Sampled Meter Cond. (DCF)	46.012	33.264	33.754
Gas Meter Calibration Factor	0.999	0.999	0.999
Barometric Pressure at Barom. (in. Hg)	30.05	30.04	29.96
Elev. Diff. Manom. To Barom. (ft.)	0	0	0
Vol. Gas Sampled Std. Cond. (DSCF)	45.255	32.412	32.731
Vol. Water Collected Std. Cond. (SCF)	28.644	28.714	27.682
Moisture in Stack Gas (% Vol.)	38.8	47.0	45.8
Molecular Weight Dry Stack Gas	30.00	30.00	30.00
Molecular Weight Wet Stack Gas	25.35	24.36	24.50
Stack Gas Static Press. (in. H2O gauge)	-0.16	-0.13	-0.14
Stack Gas Static Press. (in. Hg abs.)	30.04	30.03	29.95
Average Square Root Velocity Head	0.399	0.401	0.403
Average Orifice Differential (in. H2O)	1.802	0.905	0.917
Average Gas Meter Temperature (°F)	81.0	84.7	85.9
Average Stack Temperature (°F)	185.2	191.1	189.8
Pitot Tube Coefficient	0.84	0.84	0.84
Stack Gas Vel. Stack Cond. (ft/sec)	26.35	27.13	27.25
Effective Stack Area (sq. ft.)	25.25	25.25	25.25
Stack Gas Flow Rate Std. Cond. (DSCFM)	20,081	17,742	18,195
Stack Gas Flow Rate Stack Cond. (ACFM)	39,913	41,109	41,286
Net Time of Run (min.)	60	60	60
Nozzle Diameter (in.)	0.398	0.366	0.366
Percent Isokinetic	109.8	105.3	103.7
Particulate Collected (mg)	276.3	255.6	252.8
Fuel Use Rate (ACFM)	1360	1420	1410
Particulate Emissions (grains/DSCF)	0.094	0.122	0.119
Particulate Emissions (lb/hr)	16.2	18.5	18.6
Avg. Particulate Emissions (lb/hr)		17.8	
Avg. Allowable Part. Emissions (lb/hr)		34.2	

Note: Standard conditions 68°F, 29.92 in. Hg



State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee	
To: _____	Location: _____
To: _____	Location: _____
To: _____	Location: _____
From: _____	Date: _____

# Interoffice Memorandum

RECEIVED

MAR 8 1989

DER-BAQW

TO: Clair Fancy  
FROM: Bill Thomas *WCT*  
DATE: March 6, 1989  
SUBJECT: Citrus Hill Manufacturing Company  
Permit Nos. AC53-125831, 125900 and 125508

We recommend an extension of the expiration date for the above permits as requested.

WCT/js

DEPARTMENT OF ENVIRONMENTAL REGULATION

**ROUTING AND TRANSMITTAL SLIP**

ACTION NO

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)

*Clair Farcy*

Initial

Date

2.

*DARM*

Initial

Date

3.

*TT*

Initial

Date

4.

*Pat H*

Initial

Date

REMARKS:

**RECEIVED**

MAR 8 1989

DER-BAQM

INFORMATION

Review & Return

Review & File

Initial & Forward

DISPOSITION

Review & Respond

Prepare Response

For My Signature

For Your Signature

Let's Discuss

Set Up Meeting

Investigate & Report

Initial & Forward

Distribute

Concurrence

For Processing

Initial & Return

FROM:

*Bill Thomas*

DATE

*3-6-89*

PHONE





# The Citrus Hill Manufacturing Company

P.O. BOX 2000, FROSTPROOF, FLORIDA 33843

February 22, 1989

RECEIVED

FEB 27 1989

DER-BAQM

Mr. C. H. Fancy, P. E.  
Deputy Chief, Bureau of Air Quality Management  
Department of Environmental Regulation  
Twin Tower Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

RE: Permit Numbers AC53-125831, AC53-125900, AC53-125508

Dear Mr. Fancy:

This letter is written in order to request an extension of the expiration date for the above referenced Construction Permits. The request is because of the inability to perform the necessary compliance tests at this time.

Our attempts at testing have run into difficulty, due to what we in the citrus industry call "Midseason Break" time of the season. This occurs when the early and midseason varieties of oranges are dwindling and the late crop oranges are not yet mature enough to process.

It is for this reason we request an extension of the expiration date of the Construction Permits until September 1, 1989. This additional time will allow rescheduling compliance testing for mid April when the fruit volume is such to maintain constant operations.

If there is a need for additional information or if there are any questions of this request, please contact me at (813) 635-2211.

Sincerely,

K. J. Ballard  
Environmental Manager

KJB/lsm

0609S

copied: P. Raval  
B. Thomas, SW Dist  
CHF/BT

**The Citrus Hill Manufacturing Company**

P.O. BOX 2000  
FROSTPROOF, FLORIDA 33843

*Fold at line over top of envelope to the right  
of the return address*

**CERTIFIED**

P. 264 526 961

**MAIL**

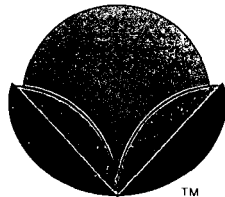


Mr. C. H. Fancy, P. E.  
Deputy Chief,  
Bureau of Air Quality Management  
Department of Environmental Regulation  
Twin Tower Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400



Cypress Mail B15071093 W  
2-16-89

file copy



# The Citrus Hill Manufacturing Company

P.O. BOX 2000, FROSTPROOF, FLORIDA 33843

February 9, 1989

Mr. Pradeep Raval  
Bureau of Air Quality Management  
Department of Environmental Regulation  
2600 Blair Stone Road  
Twin Tower Office Building  
Tallahassee, Florida 32301-8241

RECEIVED  
FEB 17 1989  
DER-BAQM

Re: Permit No. AC53-125508

Dear Raval:

This letter is a follow up of our conversation of February 8, 1989, when it was determined that we should have particulate testing prior to applying for an operating permit for our Waste Heat Evaporator Citrus Peel Dryer.

Based on previous permit requirements, it is understandable that AC53-125508 should be amended to reflect particulate emission testing requirements. I have enclosed particulate emission summaries for 1986 through 1988 for your information as requested. We have presently scheduled a particulate emission test for February 21, 1989, on the Waste Heat Evaporator Citrus Peel Dryer. The data from this test may be of more value as this will be the first test conducted since repiping the exhaust stacks while the input volume has increased.

If there is a need for further information or if there are any questions, please contact me at (813) 635-2211.

Sincerely,

K. J. Ballard  
Environmental Manager

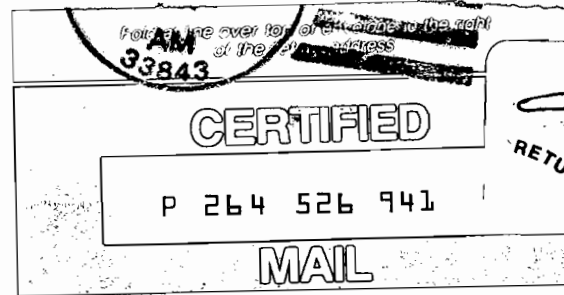
Enclosures  
0601S  
KJB/lsm

copied: P. Raval  
B. Thomas, SW Dist.  
CHF/BT

The Citrus Hill Manufacturing Company

P.O. BOX 2000  
FROSTPROOF, FLORIDA 33843

RECEIVED  
FEB 17 1989  
DER-BAQM



**FOR POSTAGE**  
SENDER: Remove Label, Affix  
Postage and Remail

Mr. Pradeep Raval  
Bureau of Air Quality Management  
Department of Environmental Regulation  
2600 Blair Stone Road  
Twin Tower Office Building  
Tallahassee, Florida 32301-8241

FEB 17 1989

DER-BAQM

TABLE 1. PARTICULATE EMISSIONS TEST SUMMARY

Plant: Ben Hill Griffin Citrus Company  
 Unit: Waste Heat Evaporator

	Run 1	Run 2	Run 3
Date of Run	4/15/86	4/15/86	4/15/86
Process Rate (TPH)	56.0	62.1	55.0
Start Time (24-hr. clock)	1050	1240	1428
End Time (24-hr. clock)	1155	1344	1531
Vol. Dry Gas Sampled Meter Cond. (DCF)	36.219	37.392	36.716
Gas Meter Calibration Factor	1.009	1.009	1.009
Barometric Pressure at Barom. (in. Hg)	30.055	30.04	30.01
Elev. Diff. Manom. To Barom. (ft.)	0	0	0
Vol. Gas Sampled Std. Cond. (DSCF)	34.343	35.214	34.464
Vol. Water Collected Std. Cond. (SCF)	22.604	17.733	26.036
Moisture in Stack Gas (% Vol.)	39.7	33.5	41.3
Molecular Weight Dry Stack Gas	30.00	30.00	30.00
Molecular Weight Wet Stack Gas	25.24	25.98	25.04
Stack Gas Static Press. (in. H <sub>2</sub> O gauge)	-0.48	-0.52	-0.49
Stack Gas Static Press. (in. Hg abs.)	30.02	30.00	29.97
Average Square Root Velocity Head	1.040	1.062	1.043
Average Orifice Differential (in. H <sub>2</sub> O)	1.044	1.100	1.061
Average Gas Meter Temperature (°F)	96.8	100.5	101.8
Average Stack Temperature (°F)	170.1	168.6	171.0
Pitot Tube Coefficient	0.84	0.84	0.84
Stack Gas Vel. Stack Cond. (ft/sec)	68.14	68.51	68.69
Effective Stack Area (sq. ft.)	7.88	7.88	7.88
Stack Gas Flow Rate Std. Cond. (DSCFM)	16,329	18,141	15,977
Stack Gas Flow Rate Stack Cond. (ACFM)	32,207	32,383	32,468
Net Time of Run (min.)	60	60	60
Nozzle Diameter (in.)	0.220	0.220	0.220
Percent Isokinetic	104.7	96.6	107.3
Particulate Collected (mg)	182.8	120.6	142.1
Fuel Use Rate (ACFM)	121.2	107.5	116.0
Particulate Emissions (grains/DSCF)	0.082	0.053	0.064
Particulate Emissions (lb/hr)	11.5	8.2	8.7
Avg. Particulate Emissions (lb/hr)		9.5	
Avg. Allowable Part. Emissions (lb/hr)		33.1	

Note: Standard conditions 68°F, 29.92 in. Hg

RECEIVED

TABLE 1. PARTICULATE EMISSIONS TEST SUMMARY FEB 17 1989

DER-BAQM

Plant: Citrus Hill Manufacturing Company  
 Unit: Waste Heat Evaporator

	Run 1	Run 2	Run 3
Date of Run	4/15/87	4/15/87	4/15/87
Process Rate (TPH)	63.59	63.40	66.44
Start Time (24-hr. clock)	1056	1257	1510
End Time (24-hr. clock)	1200	1401	1612
Vol. Dry Gas Sampled Meter Cond. (DCF)	39.039	44.417	42.217
Gas Meter Calibration Factor	1.012	1.012	1.012
Barometric Pressure at Barom. (in. Hg)	29.76	29.69	29.62
Elev. Diff. Manom. To Barom. (ft.)	0	0	0
Vol. Gas Sampled Std. Cond. (DSCF)	37.894	42.566	40.665
Vol. Water Collected Std. Cond. (SCF)	22.976	13.820	12.160
Moisture in Stack Gas (% Vol.)	37.5*	24.5	23.0
Molecular Weight Dry Stack Gas	30.00	30.00	30.00
Molecular Weight Wet Stack Gas	25.50	27.06	27.24
Stack Gas Static Press. (in. H <sub>2</sub> O gauge)	-0.56	-0.67	-0.57
Stack Gas Static Press. (in. Hg abs.)	29.72	29.64	29.58
Average Square Root Velocity Head	1.047	1.105	1.072
Average Orifice Differential (in. H <sub>2</sub> O)	1.176	1.521	1.405
Average Gas Meter Temperature (°F)	89.1	95.4	91.1
Average Stack Temperature (°F)	166.5	150.3	157.5
Pitot Tube Coefficient	0.84	0.84	0.84
Stack Gas Vel. Stack Cond. (ft/sec)	68.39	69.24	67.39
Effective Stack Area (sq. ft.)	7.88	7.88	7.88
Stack Gas Flow Rate Std. Cond. (DSCFM)	16,909	21,169	20,722
Stack Gas Flow Rate Stack Cond. (ACFM)	32,320	32,718	31,843
Net Time of Run (min.)	60	60	60
Nozzle Diameter (in.)	0.225	0.225	0.225
Percent Isokinetic	106.6	95.6	93.3
Particulate Collected (mg)	77.3	30.9	44.8
Fuel Use Rate (ACFM)	1136	1097	1103
Particulate Emissions (grains/DSCF)	0.031	0.011	0.017
Particulate Emissions (lb/hr)	4.6	2.0	3.0
Avg. Particulate Emissions (lb/hr)		3.2	
Avg. Allowable Part. Emissions (lb/hr)		33.71	

Note: Standard conditions 68°F, 29.92 in. Hg

\* Saturation moisture at stack conditions

TABLE 1. PARTICULATE EMISSIONS TEST SUMMARY

RECEIVED

FEB 17 1989

Plant: Citrus Hill Manufacturing Company  
 Unit: Waste Heat Evaporator

DER-BAQM

	Run 1	Run 2	Run 3
Date of Run	4/26/88	4/26/88	4/26/88
Process Rate (TPH)	53.75	55.00	56.49
Start Time (24-hr. clock)	0952	1220	1525
End Time (24-hr. clock)	1056	1325	1525
Vol. Dry Gas Sampled Meter Cond. (DCF)	44.359	43.706	41.154
Gas Meter Calibration Factor	0.994	0.994	0.994
Barometric Pressure at Barom. (in. Hg)	29.93	29.91	29.89
Elev. Diff. Manom. To Barom. (ft.)	0	0	0
Vol. Gas Sampled Std. Cond. (DSCF)	42.799	41.521	39.241
Vol. Water Collected Std. Cond. (SCF)	17.304	22.255	19.685
Moisture in Stack Gas (% Vol.)	28.8	34.9	33.4
Molecular Weight Dry Stack Gas	29.00	29.00	29.00
Molecular Weight Wet Stack Gas	25.83	25.16	25.33
Stack Gas Static Press. (in. H2O gauge)	-0.71	-0.71	-0.82
Stack Gas Static Press. (in. Hg abs.)	29.88	29.86	29.83
Average Square Root Velocity Head	1.080	1.082	1.088
Average Orifice Differential (in. H2O)	1.604	1.553	1.357
Average Gas Meter Temperature (°F)	86.3	94.4	91.7
Average Stack Temperature (°F)	157.4	165.3	163.5
Pitot Tube Coefficient	0.84	0.84	0.84
Stack Gas Vel. Stack Cond. (ft/sec)	69.38	70.91	71.00
Effective Stack Area (sq. ft.)	7.88	7.88	7.88
Stack Gas Flow Rate Std. Cond. (DSCFM)	19,942	18,389	18,866
Stack Gas Flow Rate Stack Cond. (ACFM)	32,791	33,517	33,558
Net Time of Run (min.)	60	60	60
Nozzle Diameter (in.)	0.226	0.226	0.226
Percent Isokinetic	101.2	106.5	98.1
Particulate Collected (mg)	75.0	84.7	79.9
Fuel Use Rate (ACFM)	854	931	910
Particulate Emissions (grains/DSCF)	0.027	0.031	0.031
Particulate Emissions (lb/hr)	4.6	5.0	5.1
Avg. Particulate Emissions (lb/hr)		4.9	
Avg. Allowable Part. Emissions (lb/hr)		32.87	

Note: Standard conditions 68°F, 29.92 in. Hg

\* Saturation moisture at stack conditions

P 274 007 462 88

1517

**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

\* U.S.G.P.O. 1985-480-794

PS Form 3800, June 1985

Sent to Mr. W. K. Miller, Citrus Hill	
Street and No. P.O. Box 2000 Mfg. Co.	
P.O. State and ZIP Code Frostproof, FL 33843	
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 Mailed: 9-27-88 Permit: AC 53-125831 -125990 -125508	





# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

## STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION NOTICE OF PERMIT

Mr. W. K. Miller  
The Citrus Hill Manufacturing Co.  
Post Office Box 2000  
Frostproof, Florida 33843

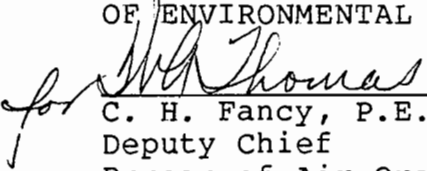
September 26, 1988

Enclosed are permits Nos. AC 53-125831, AC 53-125990, and AC 53-125508 to The Citrus Hill Manufacturing Company for Boilers Nos. 1 and 2, and Citrus Peel Dryer with Waste Heat Evaporator located at their existing facility in Frostproof, Polk County, Florida. These permits are issued pursuant to Section 403, Florida Statutes.

Any Party to these permits has the right to seek judicial review of these permits pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date these permits are filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

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

Copy furnished to:

Jim McDonald, SW District  
Robert Covington, P.E.

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on 9/27/88.

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
§120.52(9), Florida Statutes, with  
the designated Department Clerk,  
receipt of which is hereby  
acknowledged.

Judy Rogers  
Clerk

9-27-88  
Date

Final Determination

The Citrus Hill Manufacturing Company  
Frostproof, Polk County, Florida

Boiler No. 1, Erie City  
Permit No. AC 53-125831

Boiler No. 2, Keeler  
Permit No. AC 53-125990

Citrus Peel Dryer  
Permit No. AC 53-125508

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

September 22, 1988

## Final Determination

Citrus Hill's permit applications for updating permits for Boilers No. 1 and 2, and the Citrus Peel Dryer at their existing facility in Frostproof, Polk County, Florida, have been reviewed by the Bureau of Air Quality Management. No comments were received in response to the Public Notice published in The Ledger on August 26, 1988.

The applicant has, however, informed DER of an environmentally beneficial piping change (see Attachment 13 added to permit AC 53-125508) which does not affect any aspect of the Department's Preliminary Determination.

The Department will amend the source description paragraph in the Citrus Peel Dryer permit, AC 53-125508, to include the use of 1% sulfur content fuel oil.

The final action of the Department will be to issue the permits as proposed with an amendment to the Citrus Peel Dryer permit as mentioned above.



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary

## PERMITTEE:

The Citrus Hill  
Manufacturing Company  
P. O. Box 2000  
Frostproof, FL 33843

Permit Number: AC 53-125831  
Expiration Date: June 1, 1989  
County: Polk  
Latitude/Longitude: 27° 44' 22"N  
81° 31' 58"W  
Project: Boiler No. 1, Erie City

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 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 permitting of a 66.3 MMBtu/hr heat input Erie City boiler producing up to 51,000 lbs/hr steam at 150 psig. The boiler shall fire only natural gas or 1% sulfur content No. 6 fuel oil. The boiler is located at Citrus Hill's existing facility in Frostproof, Polk County, Florida.

The source will be in accordance with the permit application, plans, documents, and reference materials submitted unless otherwise stated in the General and Specific Conditions.

## Attachments

1. Citrus Hill's application package dated October 6, 1986.
2. DER's letter of incompleteness dated November 7, 1986.
3. Citrus Hill's name change letter, dated March 5, 1987.
4. Citrus Hill's additional information dated May 11, 1987.
5. DER's response dated June 25, 1987.
6. Citrus Hill's amendment dated September 1, 1987.
7. DER's letter dated October 2, 1987.
8. Citrus Hill's letter dated October 26, 1987.
9. DER's Preliminary Determination dated January 6, 1988.
10. Citrus Hill's letter dated May 3, 1988.
11. Citrus Hill's letter dated May 18, 1988.
12. DER's Revised Preliminary Determination dated July 28, 1988.

PERMITTEE:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125831  
Expiration Date: June 1, 1989

**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:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125831  
Expiration Date: June 1, 1989

**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:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125831  
Expiration Date: June 1, 1989

**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 noncompliance 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:

- (x) 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:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125831  
Expiration Date: June 1, 1989

**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. Boiler No. 1, Erie City, shall operate for a maximum of 4942 hours annually (typically between November and June).

2. The maximum heat input shall not exceed 66.3 MMBtu/hr firing up to 65,000 cu. ft/hr of natural gas, or 419 gals/hr of fuel oil.

3. Only natural gas, or 1% sulfur content No. 6 fuel oil shall be fired in this boiler. Prior Departmental approval shall be obtained before firing any other fuel.

PERMITTEE:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125831  
Expiration Date: June 1, 1989

SPECIFIC CONDITIONS:

4. The projected emissions from Boiler No. 1, Erie City, based on a heat input rate of 66.27 MMBTU/hr, and 4942 annual operating hours, are tabulated below for inventory purposes.

Source	Pollutant	Emissions			
		Natural Gas lb/hr	TPY	Fuel Oil lb/hr	TPY
Boiler 1 (Erie City)	NOx	15.0	37.0	33.5	82.9
	CO	1.1	2.7	1.7	4.2
	PM	1.0	2.5	5.5	13.5
	SO <sub>2</sub>	0.04	0.1	65.8	162.6
	VOC	0.2	0.5	1.3	3.1

5. Visible emissions shall not exceed 20% opacity.

6. Compliance shall be determined by DER Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources. The Department may require additional tests to be conducted should they be warranted by poor compliance test results.

7. Good combustion practices shall be implemented at all times, as control measures for the pollutants emitted as products of combustion.

8. DER's Southwest District office shall be notified in writing a minimum of 15 days prior to source testing. Written reports of the tests shall be submitted to the district office within 45 days of test completion.

The construction shall reasonably conform to the plans and schedule submitted in the application. If the permittee is unable to complete construction on schedule, the Department must be notified in writing a minimum of 60 days prior to the expiration of the construction permit and submit a new schedule and request for an extension of the construction permit. (Rule 17-2, F.A.C.).

To obtain a permit to operate, the permittee must demonstrate compliance with the conditions of the construction permit and submit a complete application for an operating permit, including the application fee, compliance test results, and Certificate of Completion, to the Department's Southwest District office a minimum of 90 days prior to the expiration date of the construction permit.

PERMITTEE:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125831  
Expiration Date: June 1, 1989

The permittee may continue to operate in compliance with all terms of the construction permit until its expiration date. Operation beyond the construction permit expiration date requires a valid permit to operate. (Rule 17-2 and 17-4, F.A.C.)


If the construction permit expires prior to the permittee requesting an extension or obtaining a permit to operate, then all activities at the project must cease and the permittee must apply for a new permit to construct which can take up to 90 days to process a complete application. (Rule 17-4, F.A.C.)

9. Any change in the method of operation, fuels, equipment or operating hours shall be submitted for approval to DER's Southwest District office.

10. This permit shall replace all previous permits issued for Boiler No. 1, Erie City.

Issued this 24 day of Sep,  
1988

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
Dale Twachtman, Secretary



## Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2461

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

**PERMITTEE:**  
The Citrus Hill  
Manufacturing Company  
P. O. Box 2000  
Frostproof, FL 33843

Permit Number: AC 53-125990  
Expiration Date: June 1, 1989  
County: Polk  
Latitude/Longitude: 27° 44' 22"N  
81° 31' 58"W  
Project: Boiler No. 2, Keeler

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 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 permitting of a 64.9 MMBtu/hr heat input Keeler boiler producing up to 50,000 lbs/hr steam at 150 psig. The boiler shall fire only natural gas or 1% sulfur content No. 6 fuel oil. The boiler is located at Citrus Hill's existing facility in Frostproof, Polk County, Florida.

The source will be in accordance with the permit application, plans, documents, and reference materials submitted unless otherwise stated in the General and Specific Conditions.

### Attachments

1. Citrus Hill's application package dated October 6, 1986.
2. DER's letter of incompleteness dated November 7, 1986.
3. Citrus Hill's name change letter, dated March 5, 1987.
4. Citrus Hill's additional information dated May 11, 1987.
5. DER's response dated June 25, 1987.
6. Citrus Hill's amendment dated September 1, 1987.
7. DER's letter dated October 2, 1987.
8. Citrus Hill's letter dated October 26, 1987.
9. DER's Preliminary Determination dated January 6, 1988.
10. Citrus Hill's letter dated May 3, 1988.
11. Citrus Hill's letter dated May 18, 1988.
12. DER's Revised Preliminary Determination dated July 28, 1988.

PERMITTEE:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125990  
Expiration Date: June 1, 1989

**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:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125990  
Expiration Date: June 1, 1989

**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:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125990  
Expiration Date: June 1, 1989

**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 noncompliance 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:

- (x) 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:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125990  
Expiration Date: June 1, 1989

**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. Boiler No. 2, Keeler, shall operate for a maximum of 7102 hours annually.
2. The maximum heat input to the boiler shall not exceed 64.9 MMBtu/hr firing up to 59,000 cu. ft/hr of natural gas, or 405.5 gals/hr of fuel oil.
3. Only natural gas or 1% sulfur content No. 6 fuel oil shall be fired in this boiler. Prior Departmental approval shall be obtained before firing any other fuel.



PERMITTEE:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125990  
Expiration Date: June 1, 1989

SPECIFIC CONDITIONS:

4. The projected emissions for Boiler No. 2, Keeler, based on a heat input rate of 64.9 MMBTU/hr, and 7102 annual operating hours, are tabulated below for inventory purposes.

Source	Pollutant	Emissions			
		Natural Gas lb/hr	Gas TPY	Fuel Oil lb/hr	Oil TPY
Boiler 2 (Keeler)	NOx	13.6	48.3	32.4	115.2
	CO	1	3.6	1.6	5.8
	PM	1	3.6	5.3	18.7
	SO <sub>2</sub>	0.04	0.2	63.7	22.6
	VOC	0.2	1	1.2	4.3

5. Visible emissions shall not exceed 20% opacity.

6. Compliance shall be determined by DER Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources. The Department may require additional tests to be conducted should they be warranted by poor compliance test results.

7. Good combustion practices shall be implemented at all times, as control measures for the pollutants emitted as products of combustion.

8. DER's Southwest District office shall be notified in writing a minimum of 15 days prior to source testing. Written reports of the tests shall be submitted to the district office within 45 days of test completion.

The construction shall reasonably conform to the plans and schedule submitted in the application. If the permittee is unable to complete construction on schedule, the Department must be notified in writing a minimum of 60 days prior to the expiration of the construction permit and submit a new schedule and request for an extension of the construction permit. (Rule 17-2, F.A.C.).

To obtain a permit to operate, the permittee must demonstrate compliance with the conditions of the construction permit and submit a complete application for an operating permit, including the application fee, compliance test results, and Certificate of Completion, to the Department's Southwest District office a minimum of 90 days prior to the expiration date of the construction permit.

PERMITTEE:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125990  
Expiration Date: June 1, 1989

The permittee may continue to operate in compliance with all terms of the construction permit until its expiration date. Operation beyond the construction permit expiration date requires a valid permit to operate. (Rule 17-2 and 17-4, F.A.C.)

If the construction permit expires prior to the permittee requesting an extension or obtaining a permit to operate, then all activities at the project must cease and the permittee must apply for a new permit to construct which can take up to 90 days to process a complete application. (Rule 17-4, F.A.C.)

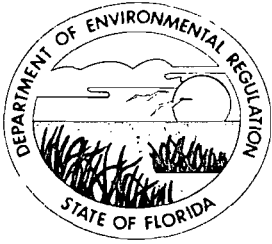
9. Any change in the method of operation, fuels, equipment or operating hours shall be submitted for approval to DER's Southwest District office.

10. This permit shall replace all previous permits issued for Boiler No. 2, Keeler.

Issued this 24 day of Sep,  
1988

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
Dale Twachtman, Secretary



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

**PERMITTEE:**  
The Citrus Hill  
Manufacturing Company  
P. O. Box 2000  
Frostproof, FL 33843

Permit Number: AC 53-125508  
Expiration Date: June 1, 1989  
County: Polk  
Latitude/Longitude: 27° 44' 22"N  
81° 31' 58"W  
Project: Citrus Peel Dryer with  
Waste Heat Evaporator

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 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 permitting of a Citrus Peel Dryer designed to evaporate a maximum of 60,000 lbs/hr of water, fired on natural gas or 1% sulfur content No.6 fuel oil, at a maximum rate of 90 MMBtu/hr. The dryer, connected to a Waste Heat Evaporator designed to evaporate 90,000 lbs/hr of water, processes a maximum of 87,700 lbs/hr of pressed peel at about 73% moisture (process input rate). The maximum production rate yields 25,000 lbs/hr dried peel at about 11% moisture. The source is located at Citrus Hill's existing facility in Frostproof, Polk County, Florida.

The source will be in accordance with the permit application, plans, documents, and reference materials submitted unless otherwise stated in the General and Specific Conditions.

## Attachments

1. Citrus Hill's application package dated October 6, 1986.
2. DER's letter of incompleteness dated November 7, 1986.
3. Citrus Hill's name change letter, dated March 5, 1987.
4. Citrus Hill's additional information dated May 11, 1987.
5. DER's response dated June 25, 1987. dated May 11, 1987.
6. Citrus Hill's amendment dated September 1, 1987.
7. DER's letter dated October 2, 1987.
8. Citrus Hill's letter dated October 26, 1987.
9. DER's Preliminary Determination dated January 6, 1988.
10. Citrus Hill's letter dated May 3, 1988.
11. Citrus Hill's letter dated May 18, 1988.
12. DER's Revised Preliminary Determination dated July 28, 1988.
13. Citrus Hill's letter dated August 15, 1988.

PERMITTEE:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125508  
Expiration Date: June 1, 1989

**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:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125508  
Expiration Date: June 1, 1989

**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:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125508  
Expiration Date: June 1, 1989

**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 noncompliance 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:

- (x) 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:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125508  
Expiration Date: June 1, 1989

**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 Citrus Peel Dryer shall operate for a maximum of 4942 hours annually (typically between November and June).
2. The maximum heat input to the dryer shall not exceed 90 MMBtu/hr firing up to 90,000 cu. ft/hr of natural gas, or 580 gals/hr of No. 6 fuel oil.
3. Only natural gas or 1% sulfur content No. 6 fuel oil shall be fired in this dryer. Prior Departmental approval shall be obtained before firing any other fuel.

PERMITTEE:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125508  
Expiration Date: June 1, 1989

SPECIFIC CONDITIONS:

4. The projected emissions from the Citrus Peel Dryer, based on a heat input rate of 90 MMBTU/hr, and 4942 annual operating hours, are tabulated below for inventory purposes.

Source	Pollutant	Emissions			
		Natural Gas lb/hr	Gas TPY	Fuel Oil lb/hr	Oil TPY
Peel Dryer	NOx	20.7	52.0	46.4	114.7
	CO	1.5	3.8	2.3	5.7
	PM	1.4	3.5	7.5	18.6
	SO <sub>2</sub>	0.05	0.2	91.1	225.0
	VOC	0.3	0.7	1.7	4.3

5. Visible emissions shall not exceed 20% opacity.

6. Compliance shall be determined by DER Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources. The Department may require additional tests to be conducted should they be warranted by poor compliance test results.

7. Good combustion practices shall be implemented at all times, as control measures for the pollutants emitted as products of combustion.

8. DER's Southwest District office shall be notified in writing a minimum of 15 days prior to source testing. Written reports of the tests shall be submitted to the district office with 45 days of test completion.

The construction shall reasonably conform to the plans and schedule submitted in the application. If the permittee is unable to complete construction on schedule, the Department must be notified in writing a minimum of 60 days prior to the expiration of the construction permit and submit a new schedule and request for an extension of the construction permit. (Rule 17-2, F.A.C.).

To obtain a permit to operate, the permittee must demonstrate compliance with the conditions of the construction permit and submit a complete application for an operating permit, including the application fee, compliance test results, and Certificate of Completion, to the Department's Southwest District office a minimum of 90 days prior to the expiration date of the construction permit.



PERMITTEE:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125508  
Expiration Date: June 1, 1989

The permittee may continue to operate in compliance with all terms of the construction permit until its expiration date. Operation beyond the construction permit expiration date requires a valid permit to operate. (Rule 17-2 and 17-4, F.A.C.).


If the construction permit expires prior to the permittee requesting an extension or obtaining a permit to operate, then all activities at the project must cease and the permittee must apply for a new permit to construct which can take up to 90 days to process a complete application. (Rule 17-4, F.A.C.).

9. Any change in the method of operation, fuels, equipment or operating hours shall be submitted for approval to DER's Southwest District office.

10. This permit shall replace all previous permits issued for the Citrus Peel Dryer and Waste Heat Evaporator.

Issued this 24 day of Sep,  
1988

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
Dale Twachtmann, Secretary

Best Available Control Technology (BACT) Determination  
Citrus Hill Manufacturing Company  
Polk County

The applicant has three existing sources which are presently firing natural gas and No. 6 fuel oil (stand-by) at their facility in Frostproof, Florida. The sources, two boilers and a peel dryer are rated at 66, 65, and 90 MMBtu/hr, respectively. The applicant has now requested that these sources be allowed to fire No. 6 fuel oil as an alternative fuel.

This BACT determination is required for the source as set forth in the Florida Administrative Code Rule 17-2.600(6) - Emission Limiting and Performance Standards.

BACT Determination Requested by the Applicant:

The applicant requested that No. 6 fuel oil with a sulfur content up to 1.0 percent be used in addition to natural gas.

BACT Determination by DER:

The amount of particulate and sulfur dioxide emissions from the peel dryer and boilers will be limited by the firing of natural gas and No. 6 fuel oil having a sulfur content not to exceed 1.0 percent, by weight.

BACT Determination Rationale:

Sulfur in fuel is a primary air pollution concern. Most of the sulfur becomes SO<sub>2</sub> when the fuel is burned. Particulate emissions from fuel burning are related to the sulfur content of the fuel. The Department agrees with the applicant's proposal that the firing of No. 6 oil with a sulfur content not to exceed 1.0 percent constitutes BACT as an alternate fuel, since this concentration of sulfur is consistent with previous BACT determinations for similar equipment.

Details of the Analysis May be Obtained by Contacting:

Barry Andrews, P.E., BACT Coordinator  
Department of Environmental Regulation  
Bureau of Air Quality Management  
2600 Blainstone Road  
Tallahassee, Florida 32399-2400

Citrus Hill Manufacturing Company  
Page Two

Recommended by:



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C. H. Fancy, P.E.  
Deputy Bureau Chief, BAQM

22 Sept, 1988  
Date

Approved by:



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Dale Twachtman, Secretary

24 Sep 1988  
Date



State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee	
To _____	Location _____
To _____	Location _____
To _____	Location _____
From _____	Date _____

# Interoffice Memorandum

TO: Dale Twachtmann

FROM: Steve Smallwood

DATE: September 22, 1988

SUBJ: Approval of Construction Permits for Citrus Hill  
Manufacturing Company  
State Construction Permit Numbers: AC 53-125831  
AC 53-125990  
AC 53-125508

Attached for your approval and signature are three permits prepared by Central Air Permitting for the above mentioned company for boilers No. 1 and No. 2 and the citrus peel dryer at their existing facility in Frostproof, Polk County, Florida. Comments were received during the public notice period.

Day 90, after which these permits will be issued by default, is October 5, 1988

I recommend your approval and signature.

SS/PR/s

A handwritten signature in cursive, appearing to read "SS/PR/s", is written over the typed name.

attachments

BEST AVAILABLE COPY

# AFFIDAVIT OF PUBLICATION

THE LEDGER

Lakeland, Polk County, Florida

RECEIVED

Case No. ....

Attach Notice Here

STATE OF FLORIDA )  
COUNTY OF POLK )

SEP 2 1988

DER - BAQM

Before the undersigned authority personally appeared Stephen DeWitt, who on oath says that he is Controller of The Ledger, a daily newspaper published at Lakeland in Polk County, Florida; that the attached copy of advertisement, being a .....

Notice of Intent

in the matter of .....

Issue Permit

in the .....

Court, was published in said newspaper in the issues of .....

August 26; 1988

Affiant further says that said The Ledger is a newspaper published at Lakeland, in said Polk County, Florida, and that the said newspaper has heretofore been continuously published in said Polk County, Florida, daily, and has been entered as second class matter at the postoffice in Lakeland, in said Polk County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper

Signed .....

*Stephen P. DeWitt*  
Controller

Controller

Sworn to and subscribed before me this ..... 1st .....

day of ..... September ..... A.D. 19..88

(Seal)

*Cheng Weik*  
Notary Public

NOTARY PUBLIC, STATE OF FLORIDA,  
MY COMMISSION EXPIRES: JUNE 25, 1991,  
BONDED THRU NOTARY PUBLIC UNDERWRITERS

My Commission Expires .....

Date of Issuance  
Department of Environmental Regulation  
Notice of Intent  
The Department of Environmental Regulation hereby gives notice of its intent to issue permits to Citrus Mill Manufacturing Company for Spheres Nos. 1 and 2, and Citrus Mill Dryer with Waste Heat Exchanger located at their existing facility, in Pinellas Polk County, Florida. The Department is issuing this intent to issue for the records stated in the revised Technical Evaluation and Preliminary Determination.  
Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative determination (hearing) in accordance with Section 120.27, Florida Statutes. The petition must conform to the requirements of Chapters 17.103 and 25.5, Florida Administrative Code, and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Twin Towers Office Building Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Failure to file a petition within this time period constitutes a waiver of any right such person has 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 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 Rule 28.5.207, Florida Administrative Code, 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 32304. 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 32399-2400. 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  
Bureau of Air Quality Management  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400  
Dept. of Environmental Regulation  
4520 Live Oak For Blvd  
Tampa, Florida 33619-1347  
Any person may send written comments on the proposed action to Mr. Ed Thomas at the Department's Tallahassee address. All comments must be received within 14 days of the publication of this notice and will be considered in the Department's final determination.  
J273 - 62a - 1988

copy to: The Ledger, Lakeland  
for circulation, 500 Size

8-15-88  
Frostproof, FL



# The Citrus Hill Manufacturing Company

P.O. BOX 2000, FROSTPROOF, FLORIDA 33843

RECEIVED

AUG 18 1988

August 15, 1988

DER-BAQM

AM 33843  
P 264 527 015

Mr. Pradeep Raval  
Bureau of Air Quality Management  
Department of Environmental Regulation  
2600 Blair Stone Rd.  
Twin Tower Office Building  
Tallahassee, FL 32301-8241

RE: Construction Permit Application AC-125508


Dear Mr. Raval:

As I mentioned to you, the fact is we are presently working on the by-pass or emergency exhaust stack by connecting the emergency exhaust stack to the waste heat evaporator stack system.

This change is designed to have a positive impact on reducing any possible fugitive emissions that could have occurred previously by having the by-pass stack vented to the atmosphere.

I have enclosed the flow charts for the waste heat evaporator so as to depict the piping changes that are taking place. If you should have further questions on this matter, please contact me at (813) 635-2211.

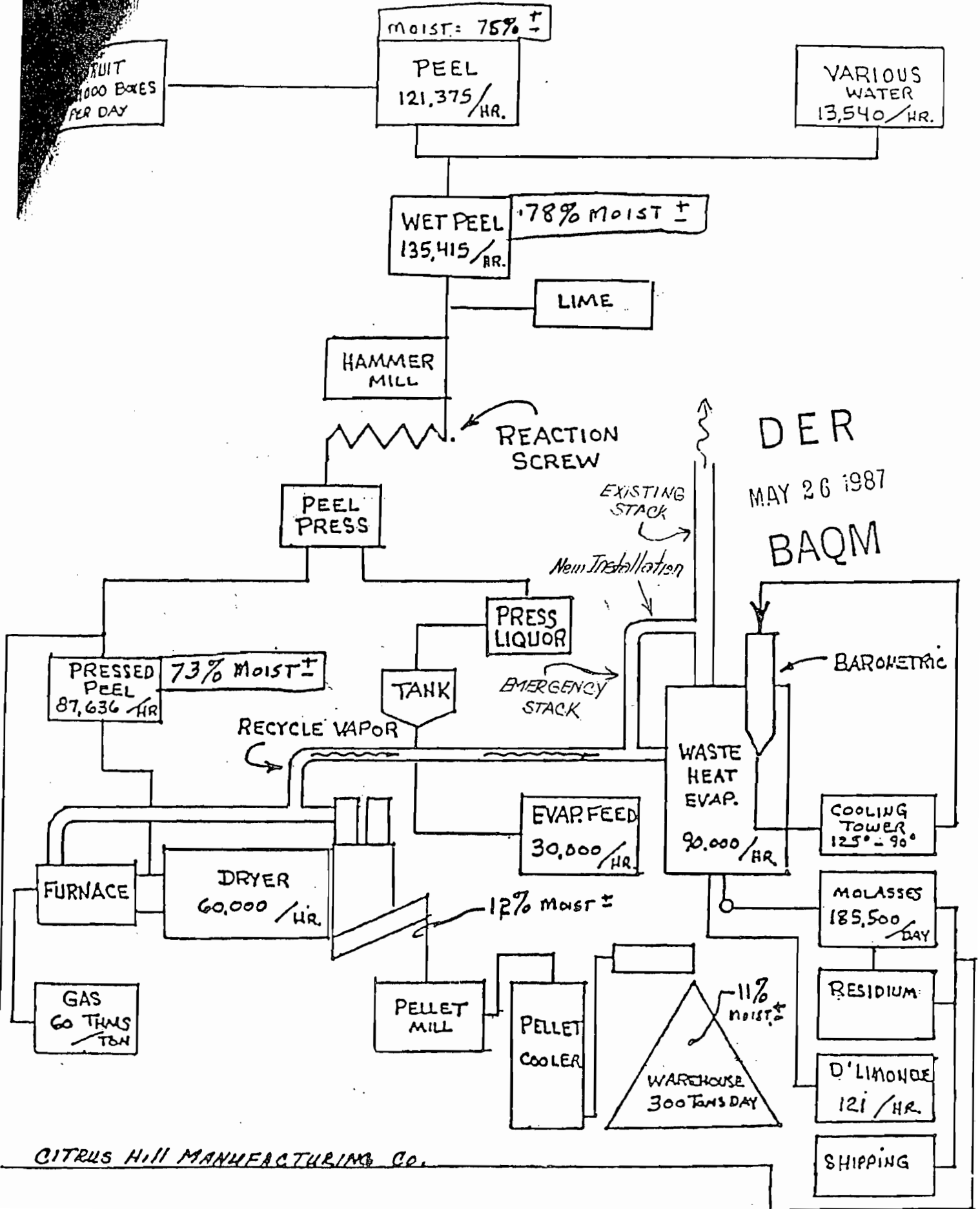
Sincerely,

  
Kenneth J. Ballard  
Environmental Manager

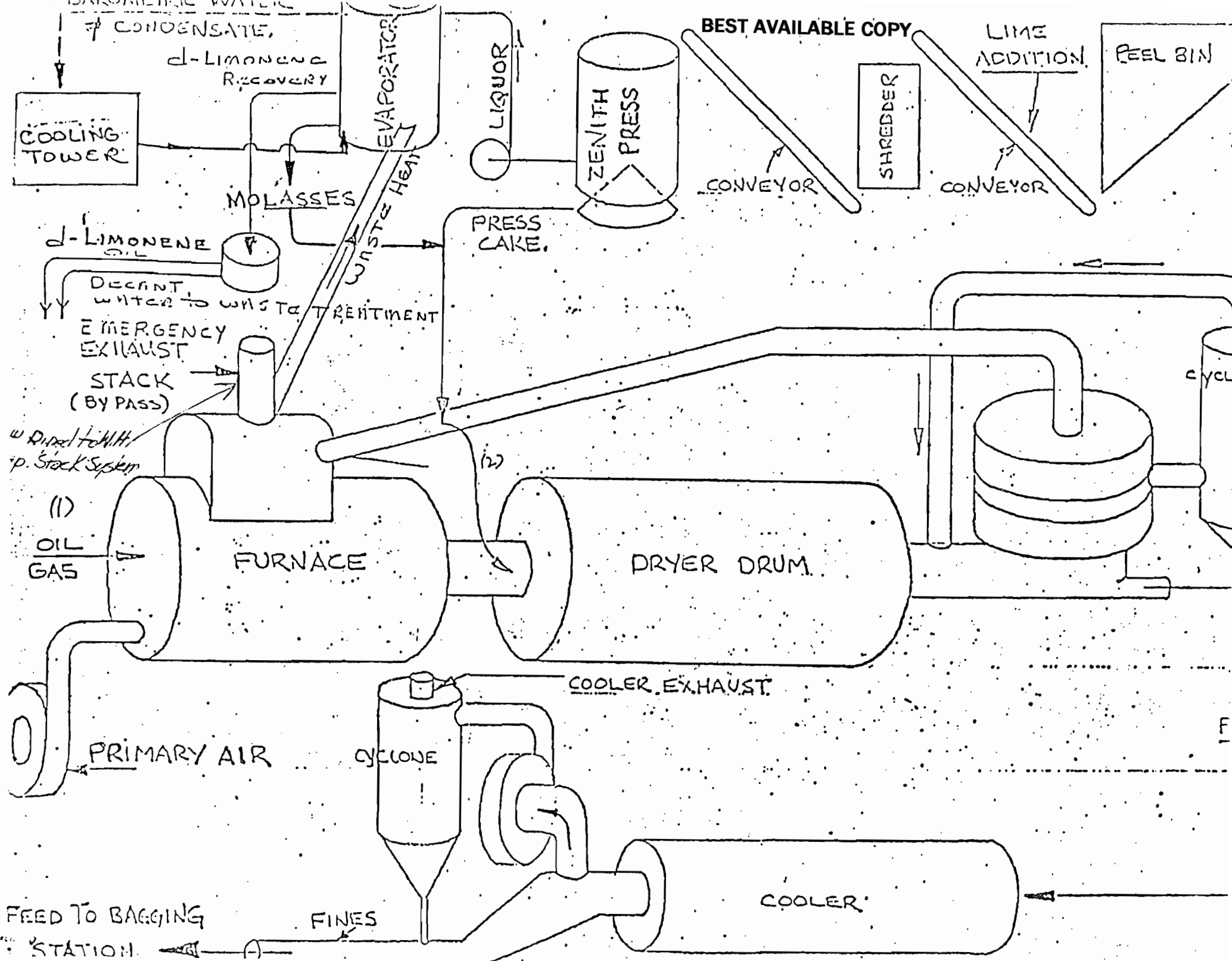
KJB:SC  
1149c

copied: Bill Thomas, SW Dist  
BT

# PRODUCTS FLOW CHART



DER  
MAY 26 1987  
BAQM





P 702 177 469  
**RECEIPT FOR CERTIFIED MAIL**  
 NO INSURANCE COVERAGE PROVIDED  
 NOT FOR INTERNATIONAL MAIL  
 (See Reverse)

PS Form 3800, June 1985

Sent to <b>Mr. W. K. Miller, Citrus Hill</b>	
Street and No. <b>P.O. Box 2000</b> Mfg. Co.	
P.O., State and ZIP Code <b>Frostproof, FL 33843</b>	
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 Mailed: 8-3-88 Permit: AC 53-125831 -125990 -125508	

**SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 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 additional service(s) requested.

1.  Show to whom delivered, date, and addressee's address. 2.  Restricted Delivery  
 †(Extra charge)† †(Extra charge)†

<p>3. Article Addressed to:</p> <p><b>Mr. W. K. Miller</b>  <b>Citrus Hill Manufacturing Co.</b>  <b>P.O. Box 2000</b>  <b>Frostproof, FL 33843</b></p>	<p>4. Article Number <b>P 702 177 469</b></p> <p>Type of Service:  <input type="checkbox"/> Registered <input type="checkbox"/> Insured  <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD  <input type="checkbox"/> Express Mail</p> <p>Always obtain signature of addressee or agent and <b>DATE DELIVERED.</b></p>
<p>5. Signature - Addressee <b>X</b></p> <p>6. Signature - Agent <b>X</b> <i>R. Sapp</i></p> <p>7. Date of Delivery <i>8/5/88</i></p>	<p>8. Addressee's Address (ONLY if requested and fee paid)</p>



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary

July 29, 1988

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. W. K. Miller  
The Citrus Hill Manufacturing Co.  
Post Office Box 2000  
Frostproof, Florida 33843

Dear Mr. Miller:

Attached is one copy of the Revised Technical Evaluation and Preliminary Determination and proposed permits for Citrus Hill's Boilers Nos. 1 and 2, and Citrus Peel Dryer with Waste Heat Evaporator at the existing Citrus Hill facility in Frostproof, Polk County, Florida.

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/pr

Attachments

cc: Jim McDonald, SW District  
Robert Covington, P.E.

BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of  
Application for Permits by:

The Citrus Hill Manufacturing Co.	DER File Nos. AC 53-125831
Post Office Box 2000	53-125990
Frostproof, Florida 33843	53-125508

---

INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its intent to issue permits (copies attached) for the proposed project as detailed in the applications specified above. The Department is issuing this Intent to Issue for the reasons stated in the attached Revised Technical Evaluation and Preliminary Determination.

The applicant, The Citrus Hill Manufacturing Company, applied on October 6, 1986, to the Department of Environmental Regulation for construction permits for Boilers Numbers 1 and 2 and Citrus Peel Dryer with Waste Heat Evaporator at their existing facility in Frostproof, Polk 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 Department has determined that air construction permits were needed for the proposed work.

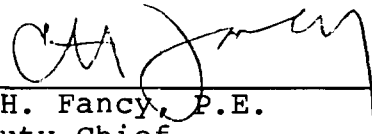
Pursuant to Section 403.815, F.S. and DER Rule 17-103.150, FAC, you (the applicant) are required to publish at your own expense the enclosed Notice of Proposed Agency Action on permit applications. The notice must be published one time only in a section of a major local newspaper of general circulation in the county in which the project is located and within thirty (30) days from receipt of this intent. Proof of publication must be provided to the Department within seven days of publication of the notice. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permits.

The Department will issue the permits with the attached conditions unless petition for an administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, F.S. A person 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. Petitions must comply with the requirement of Florida Administrative Code Rules 17-103.155 and 28-5.201 (copy enclosed) and be filed with (received by) the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant must be filed within fourteen (14) days of receipt of this intent. Petitions filed by other persons must be filed within fourteen (14) days of publication of the public notice or within fourteen (14) days of receipt of this intent, whichever first occurs. Failure to file a petition 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, concerning the subject permit application. Petitions which are not filed in accordance with the above provisions will be dismissed.

Executed 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:

Jim McDonald, SW District  
Robert Covington, P.E.

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.

State of Florida  
Department of Environmental Regulation  
Notice of Intent

The Department of Environmental Regulation hereby gives notice of its intent to issue permits to Citrus Hill Manufacturing Company for Boilers Nos. 1 and 2, and Citrus Peel Dryer with Waste Heat Evaporator located at their existing facility in Frostproof, Polk County, Florida. The Department is issuing this Intent to Issue for the reasons stated in the Revised Technical Evaluation and Preliminary Determination.

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative determination (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 Department's Office of General Counsel, 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Failure to file a petition within this time period constitutes a waiver of any right such person has 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 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 Rule 28-5.207, Florida Administrative Code, 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 32399-2400. 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  
Bureau of Air Quality Management  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Dept. of Environmental Regulation  
4520 Live Oak Fair Blvd.  
Tampa, Florida 33610-7347

Any person may send written comments on the proposed action to Mr. Bill Thomas 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.

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on August 3, 1988.

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
§120.52(9), Florida Statutes, with  
the designated Department Clerk,  
receipt of which is hereby  
acknowledged.

Matthew Wise August 3, 1988  
Clerk Date



Revised  
Technical Evaluation  
and  
Preliminary Determination

The Citrus Hill Manufacturing Company  
Frostproof, Polk County, Florida

Boiler No. 1, Erie City  
Permit No. AC 53-125831

Boiler No. 2, Keeler  
Permit No. AC 53-125990

Citrus Peel Dryer  
Permit No. AC 53-125508

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

July 28, 1988

I. Application

A. Applicant

Citrus Hill Manufacturing Company  
Post Office Box 2000  
Frostproof, Florida 33843

B. Project and Location

The applicant proposes to accurately document the operating parameters of their existing Boilers No. 1 and 2, and the Citrus Peel Dryer. The maximum heat inputs to these units will be 66, 65 and 90 MMBtu/hr, respectively.

The UTM coordinates of their facility are Zone 17, 448 km East and 3068.5 km North.

C. Sources Reviewed

The sources reviewed in this technical evaluation will be:

- (i) Boiler No. 1, Erie City
- (ii) Boiler No. 2, Keeler
- (iii) Peel Dryer with Waste Heat Evaporator

Citrus Hill applied for the construction permits on October 6, 1986, and the application was deemed complete on May 25, 1988.

D. Facility Category

Citrus Hill's facility in Frostproof is "major" as defined by Chapter 17-2 of the Florida Administrative Code (FAC).

The facility is classified in accordance with the Standard Industrial Classification (SIC) Code as:

- o Major Group 20: Food and Kindred Products
- o Group No. 203: Canned and Preserved Fruits and Vegetables
- o Industry No. 2037: Frozen Fruits, Fruit Juices and Vegetables

All three sources in this evaluation are classified in accordance with the NEDS Source Classification Code (SCC) as 1-02-006-02, Natural Gas Fired Industrial External Combustion Boilers with a heat input capacity of between 10-100 MMBtu/hr, and Residual Oil Fired External Combustion Industrial Boilers 1-02-004-01 (firing No.6 fuel oil).

## II. Project Background

All three sources are existing sources at Citrus Hill's facility. The applicant requested that the Boilers No. 1 and 2 and Peel Dryer be permitted for fuel oil firing on a continuous basis. Until now the primary fuel has been natural gas and fuel oil has been permitted as a standby fuel. In addition, Citrus Hill also requested that accurate heat input capacities of the three sources be documented during this permitting process.

Preliminary modeling done by the Department based on the emission increases under fuel oil firing conditions, indicated the possibility of violations of the SO<sub>2</sub> ambient air quality standard. In consideration of this preliminary analysis, Citrus Hill revised their permit applications by reducing the sulfur content of fuel oil to 1 percent, reducing modeled air impacts to acceptable levels.

## III. Rule Applicability

All three sources under this review will emit pollutants which are products of combustion i.e., nitrogen oxides (NO<sub>x</sub>), particulate matter (PM), carbon monoxide (CO), volatile organic compounds (VOCs) and sulfur dioxide (SO<sub>2</sub>). They are subject to the review requirements in accordance with Chapter 403 of the Florida Statutes and Chapters 17-2 and 17-4 of the Florida Administrative Code (FAC).

The project is located in Polk County, an area designated as unclassifiable for particulate matter but attainment for all other criteria pollutants in accordance with Rules 17-2.430 and 17-2.420, FAC, respectively.

The project will not be subject to a Prevention of Significant Deterioration (PSD) review as there will be no changes in permitted fuels or operations (only the updating of records), in accordance with Rule 17-2.500, FAC.

The project will not be subject to Standards of Performance for New Stationary Sources (NSPS), in accordance with 40 CFR 60 Subpart Db, because the sources pre-date the applicability date.

The project will be subject to Source Specific Emission Limiting Standards in accordance with Rule 17-2.600(6), FAC, for fossil fuel steam generators with less than 250 MMBtu/hr heat input. The applicable emission limits are established by a Best Available Control Technology (BACT) determination for PM and SO<sub>2</sub>.

The project will be required to show compliance with emission limiting standards by conducting a compliance test using DER Method 9, for visible emissions in accordance with Rule 17-2.700, FAC.

#### IV. Emission Limitations

Projected emissions from the two boilers and the peel dryer are tabulated below.

Source	Pollutant	Emissions				Heat Input (MMBtu/hr)	Annual Hours
		Natural Gas lb/hr	Gas TPY*	Fuel Oil lb/hr	Oil TPY		
Boiler 1 (Erie City)	NOx	15.0	37.0	33.5	82.9	66.27	4942
	CO	1.1	2.7	1.7	4.2		
	PM	1.0	2.5	5.5	13.5		
	SO <sub>2</sub>	0.04	0.1	65.8	162.6		
	VOC	0.2	0.5	1.3	3.1		
Boiler 2 (Keeler)	NOx	13.6	48.3	32.4	115.2	64.9	7102
	CO	1.0	3.6	1.6	5.8		
	PM	1.0	3.6	5.3	18.7		
	SO <sub>2</sub>	0.04	0.2	63.7	226		
	VOC	0.2	1.0	1.2	4.3		
Peel Dryer	NOx	20.7	52.0	46.4	114.7	90.0	4942
	CO	1.5	3.8	2.3	5.7		
	PM	1.4	3.5	7.5	18.6		
	SO <sub>2</sub>	0.05	0.2	91.1	225		
	VOC	0.3	0.7	1.7	4.3		

As determined by the BACT analysis, the three sources will be permitted to fire only natural gas or No. 6 fuel oil ( 1% sulfur content by weight).

The visible emissions limit for all three sources will be 20% opacity.

Note:

Boiler No. 1 and the peel dryer operate 24 hours, 6.7 days for 27 weeks; and 24 hrs, 5 days for 5 weeks from November to June.

Boiler No. 2 operates 24 hrs, 6.7 days for 27 weeks (Dec-June); and 24 hrs, 5 days for 23 weeks (July-Nov).

\*TPY - tons per year.

## V. Air Quality Analysis

The Department's modeling analysis predicted violations of ambient air quality standards only if fuel oil with greater than 1% sulfur content were to be fired. Since the applicant will fire only natural gas or 1% sulfur content fuel oil, the Department has reasonable assurance that the sources will not cause or contribute to a violation of any ambient air quality standard.

## VI. Conclusion

Based on the information provided by Citrus Hill, the Department has reasonable assurance that the Boilers No. 1 and 2 and the Citrus Peel Dryer, as described in this evaluation, and subject to the conditions proposed herein, will not cause or contribute to a violation of an ambient air quality standard or PSD increment or any other provisions of Chapter 17-2, FAC.



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

**PERMITTEE:**  
The Citrus Hill  
Manufacturing Company  
P. O. Box 2000  
Frostproof, FL 33843

Permit Number: AC 53-125831  
Expiration Date: June 1, 1989  
County: Polk  
Latitude/Longitude: 27° 44' 22"N  
81° 31' 58"W  
Project: Boiler No. 1, Erie City

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 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 permitting of a 66.3 MMBtu/hr heat input Erie City boiler producing upto 51,000 lbs/hr steam at 150 psig. The boiler shall fire only natural gas or 1% sulfur content No. 6 fuel oil. The boiler is located at Citrus Hill's existing facility in Frostproof, Polk County, Florida.

The source will be in accordance with the permit application, plans, documents, and reference materials submitted unless otherwise stated in the General and Specific Conditions.

## Attachments

1. Citrus Hill's application package dated October 6, 1986.
2. DER's letter of incompleteness dated November 7, 1986.
3. Citrus Hill's name change letter, dated March 5, 1987.
4. Citrus Hill's additional information dated May 11, 1987.
5. DER's response dated June 25, 1987.
6. Citrus Hill's amendment dated September 1, 1987.
7. DER's letter dated October 2, 1987.
8. Citrus Hill's letter dated October 26, 1987.
9. DER's Preliminary Determination dated January 6, 1988.
10. Citrus Hill's letter dated May 3, 1988.
11. Citrus Hill's letter dated May 18, 1988.
12. DER's Revised Preliminary Determination dated July 28, 1988.

**PERMITTEE:**  
The Citrus Hill  
Manufacturing Company

**Permit Number:** AC 53-125831  
**Expiration Date:** June 1, 1989

**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:**  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125831  
Expiration Date: June 1, 1989

**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:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125831  
Expiration Date: June 1, 1989

**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 noncompliance 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:

- (x) 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:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125831  
Expiration Date: June 1, 1989

**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. Boiler No. 1, Erie City, shall operate for a maximum of 4942 hours annually (typically between November and June).

2. The maximum heat input shall not exceed 66.3 MMBtu/hr firing upto 65,000 cu. ft/hr of natural gas, or 419 gals/hr of fuel oil.

3. Only natural gas, or 1% sulfur content No. 6 fuel oil shall be fired in this boiler. Prior Departmental approval shall be obtained before firing any other fuel.

PERMITTEE:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125831  
Expiration Date: June 1, 1989

**SPECIFIC CONDITIONS:**

4. The projected emissions from Boiler No. 1, Erie City, based on a heat input rate of 66.27 MMBTU/hr, and 4942 annual operating hours, are tabulated below for inventory purposes.

Source	Pollutant	Emissions			
		Natural Gas lb/hr	Gas TPY	Fuel Oil lb/hr	Oil TPY
Boiler 1 (Erie City)	NOx	15.0	37.0	33.5	82.9
	CO	1.1	2.7	1.7	4.2
	PM	1.0	2.5	5.5	13.5
	SO <sub>2</sub>	0.04	0.1	65.8	162.6
	VOC	0.2	0.5	1.3	3.1

5. Visible emissions shall not exceed 20% opacity.

6. Compliance shall be determined by DER Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources. The Department may require additional tests to be conducted should they be warranted by poor compliance test results.

7. Good combustion practices shall be implemented at all times, as control measures for the pollutants emitted as products of combustion.

8. DER's district office shall be notified in writing a minimum of 15 days prior to source testing. Written reports of the tests shall be submitted to the district office within 45 days of test completion.

The construction shall reasonably conform to the plans and schedule submitted in the application. If the permittee is unable to complete construction on schedule, the Department must be notified in writing a minimum of 60 days prior to the expiration of the construction permit and submit a new schedule and request for an extension of the construction permit. (Rule 17-2, FAC)

To obtain a permit to operate, the permittee must demonstrate compliance with the conditions of the construction permit and submit a complete application for an operating permit, including the application fee, along with compliance test results and Certificate of Completion, to the Department's district office a minimum of 90 days prior to the expiration date of the construction permit.

PERMITTEE:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125831  
Expiration Date: June 1, 1989

The permittee may continue to operate in compliance with all terms of the construction permit until its expiration date. Operation beyond the construction permit expiration date requires a valid permit to operate. (Rule 17-2 and 17-4, FAC)

If the construction permit expires prior to the permittee requesting an extension or obtaining a permit to operate, then all activities at the project must cease and the permittee must apply for a new permit to construct which can take up to 90 days to process a complete application. (Rule 17-4, FAC)

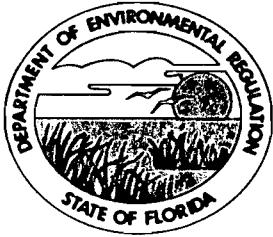
9. Any change in the method of operation, fuels, equipment or operating hours shall be submitted for approval to DER's district office.

10. This permit shall replace all previous permits issued for Boiler No. 1, Erie City.

Issued this \_\_\_\_\_ day of \_\_\_\_\_,  
19\_\_.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

\_\_\_\_\_  
Dale Twachtmann, Secretary



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

**PERMITTEE:**  
The Citrus Hill  
Manufacturing Company  
P. O. Box 2000  
Frostproof, FL 33843

**Permit Number:** AC 53-125990  
**Expiration Date:** June 1, 1989  
**County:** Polk  
**Latitude/Longitude:** 27° 44' 22"N  
81° 31' 58"W  
**Project:** Boiler No. 2, Keeler

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 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 permitting of a 64.9 MMBtu/hr heat input Keeler boiler producing upto 50,000 lbs/hr steam at 150 psig. The boiler shall fire only natural gas or 1% sulfur content No. 6 fuel oil. The boiler is located at Citrus Hill's existing facility in Frostproof, Polk County, Florida.

The source will be in accordance with the permit application, plans, documents, and reference materials submitted unless otherwise stated in the General and Specific Conditions.

## Attachments

1. Citrus Hill's application package dated October 6, 1986.
2. DER's letter of incompleteness dated November 7, 1986.
3. Citrus Hill's name change letter, dated March 5, 1987.
4. Citrus Hill's additional information dated May 11, 1987.
5. DER's response dated June 25, 1987.
6. Citrus Hill's amendment dated September 1, 1987.
7. DER's letter dated October 2, 1987.
8. Citrus Hill's letter dated October 26, 1987.
9. DER's Preliminary Determination dated January 6, 1988.
10. Citrus Hill's letter dated May 3, 1988.
11. Citrus Hill's letter dated May 18, 1988.
12. DER's Revised Preliminary Determination dated July 28, 1988.

**PERMITTEE:**  
The Citrus Hill  
Manufacturing Company

**Permit Number:** AC 53-125990  
**Expiration Date:** June 1, 1989

**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:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125990  
Expiration Date: June 1, 1989

**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:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125990  
Expiration Date: June 1, 1989

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 noncompliance 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:

- (x) 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:**  
The Citrus Hill  
Manufacturing Company

**Permit Number:** AC 53-125990  
**Expiration Date:** June 1, 1989

**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. Boiler No. 2, Keeler, shall operate for a maximum of 7102 hours annually.
2. The maximum heat input to the boiler shall not exceed 64.9 MMBtu/hr firing upto 59,000 cu. ft/hr of natural gas, or 405.5 gals/hr of fuel oil.
3. Only natural gas, or 1% sulfur content No. 6 fuel oil shall be fired in this boiler. Prior Departmental approval shall be obtained before firing any other fuel.

PERMITTEE:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125990  
Expiration Date: June 1, 1989

SPECIFIC CONDITIONS:

4. The projected emissions for Boiler No. 2, Keeler, based on a heat input rate of 64.9 MMBTU/hr, and 7102 annual operating hours, are tabulated below for inventory purposes.

Source	Pollutant	Emissions			
		Natural Gas lb/hr	Gas TPY	Fuel Oil lb/hr	Oil TPY
Boiler 2 (Keeler)	NOx	13.6	48.3	32.4	115.2
	CO	1	3.6	1.6	5.8
	PM	1	3.6	5.3	18.7
	SO <sub>2</sub>	0.04	0.2	63.7	22.6
	VOC	0.2	1	1.2	4.3

5. Visible emissions shall not exceed 20% opacity.

6. Compliance shall be determined by DER Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources. The Department may require additional tests to be conducted should they be warranted by poor compliance test results.

7. Good combustion practices shall be implemented at all times, as control measures for the pollutants emitted as products of combustion.

8. DER's district office shall be notified in writing a minimum of 15 days prior to source testing. Written reports of the tests shall be submitted to the district office within 45 days of test completion.

The construction shall reasonably conform to the plans and schedule submitted in the application. If the permittee is unable to complete construction on schedule, the Department must be notified in writing a minimum of 60 days prior to the expiration of the construction permit and submit a new schedule and request for an extension of the construction permit. (Rule 17-2, FAC)

To obtain a permit to operate, the permittee must demonstrate compliance with the conditions of the construction permit and submit a complete application for an operating permit, including the application fee, along with compliance test results and Certificate of Completion, to the Department's district office a minimum of 90 days prior to the expiration date of the construction permit.

**PERMITTEE:**  
**The Citrus Hill**  
**Manufacturing Company**

**Permit Number: AC 53-125990**  
**Expiration Date: June 1, 1989**

The permittee may continue to operate in compliance with all terms of the construction permit until its expiration date. Operation beyond the construction permit expiration date requires a valid permit to operate. (Rule 17-2 and 17-4, FAC)

If the construction permit expires prior to the permittee requesting an extension or obtaining a permit to operate, then all activities at the project must cease and the permittee must apply for a new permit to construct which can take up to 90 days to process a complete application. (Rule 17-4, FAC)

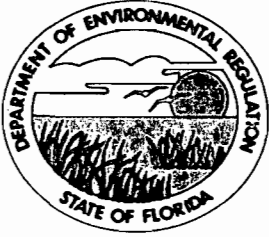
9. Any change in the method of operation, fuels, equipment or operating hours shall be submitted for approval to DER's district office.

10. This permit shall replace all previous permits issued for Boiler No. 2, Keeler.

Issued this \_\_\_\_\_ day of \_\_\_\_\_,  
19\_\_.

**STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION**

\_\_\_\_\_  
Dale Twachtman, Secretary



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

**PERMITTEE:**  
The Citrus Hill  
Manufacturing Company  
P. O. Box 2000  
Frostproof, FL 33843

**Permit Number:** AC 53-125508  
**Expiration Date:** June 1, 1989  
**County:** Polk  
**Latitude/Longitude:** 27° 44' 22"N  
81° 31' 58"W  
**Project:** Citrus Peel Dryer with  
Waste Heat Evaporator

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 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 permitting of a Citrus Peel Dryer designed to evaporate a maximum of 60,000 lbs/hr of water, fired on natural gas only, at a maximum rate of 90 MMBtu/hr. The dryer, connected to a Waste Heat Evaporator designed to evaporate 90,000 lbs/hr of water, processes a maximum of 87,700 lbs/hr of pressed peel at about 73% moisture (process input rate). The maximum production rate yields 25,000 lbs/hr dried peel at about 11% moisture. The source is located at Citrus Hill's existing facility in Frostproof, Polk County, Florida.

The source will be in accordance with the permit application, plans, documents, and reference materials submitted unless otherwise stated in the General and Specific Conditions.

## Attachments

1. Citrus Hill's application package dated October 6, 1986.
2. DER's letter of incompleteness dated November 7, 1986.
3. Citrus Hill's name change letter, dated March 5, 1987.
4. Citrus Hill's additional information dated May 11, 1987.
5. DER's response dated June 25, 1987. dated May 11, 1987.
6. Citrus Hill's amendment dated September 1, 1987.
7. DER's letter dated October 2, 1987.
8. Citrus Hill's letter dated October 26, 1987.
9. DER's Preliminary Determination dated January 6, 1988.
10. Citrus Hill's letter dated May 3, 1988.
11. Citrus Hill's letter dated May 18, 1988.
12. DER's Revised Preliminary Determination dated July 28, 1988.

**PERMITTEE:**  
The Citrus Hill  
Manufacturing Company

**Permit Number:** AC 53-125508  
**Expiration Date:** June 1, 1989

**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:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125508  
Expiration Date: June 1, 1989

**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:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125508  
Expiration Date: June 1, 1989

**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 noncompliance 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:

- (x) 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:**  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125508  
Expiration Date: June 1, 1989

**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 Citrus Peel Dryer shall operate for a maximum of 4942 hours annually (typically between November and June).
2. The maximum heat input to the dryer shall not exceed 90 MMBtu/hr firing upto 90,000 cu. ft/hr of natural gas, or 580 gals/hr of No. 6 fuel oil.
3. Only natural gas, or 1% sulfur content No. 6 fuel oil shall be fired in this dryer. Prior Departmental approval shall be obtained before firing any other fuel.



PERMITTEE:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125508  
Expiration Date: June 1, 1989

SPECIFIC CONDITIONS:

4. The projected emissions from the Citrus Peel Dryer, based on a heat input rate of 90 MMBTU/hr, and 4942 annual operating hours, are tabulated below for inventory purposes.

Source	Pollutant	Emissions			
		Natural Gas lb/hr	Gas TPY	Fuel lb/hr	Oil TPY
Peel Dryer	NOx	20.7	52.0	46.4	114.7
	CO	1.5	3.8	2.3	5.7
	PM	1.4	3.5	7.5	18.6
	SO <sub>2</sub>	0.05	0.2	91.1	225.0
	VOC	0.3	0.7	1.7	4.3

5. Visible emissions shall not exceed 20% opacity.

6. Compliance shall be determined by DER Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources. The Department may require additional tests to be conducted should they be warranted by poor compliance test results.

7. Good combustion practices shall be implemented at all times, as control measures for the pollutants emitted as products of combustion.

8. DER's district office shall be notified in writing a minimum of 15 days prior to source testing. Written reports of the tests shall be submitted to the district office with 45 days of test completion.

The construction shall reasonably conform to the plans and schedule submitted in the application. If the permittee is unable to complete construction on schedule, the Department must be notified in writing a minimum of 60 days prior to the expiration of the construction permit and submit a new schedule and request for an extension of the construction permit. (Rule 17-2, FAC)

To obtain a permit to operate, the permittee must demonstrate compliance with the conditions of the construction permit and submit a complete application for an operating permit, including the application fee, along with compliance test results and Certificate of Completion, to the Department's district office a minimum of 90 days prior to the expiration date of the construction permit.

PERMITTEE:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125508  
Expiration Date: June 1, 1989

The permittee may continue to operate in compliance with all terms of the construction permit until its expiration date. Operation beyond the construction permit expiration date requires a valid permit to operate. (Rule 17-2 and 17-4, FAC)

If the construction permit expires prior to the permittee requesting an extension or obtaining a permit to operate, then all activities at the project must cease and the permittee must apply for a new permit to construct which can take up to 90 days to process a complete application. (Rule 17-4, FAC)

9. Any change in the method of operation, fuels, equipment or operating hours shall be submitted for approval to DER's district office.

10. This permit shall replace all previous permits issued for the Citrus Peel Dryer and Waste Heat Evaporator.

Issued this \_\_\_\_\_ day of \_\_\_\_\_,  
19\_\_.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

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Dale Twachtman, Secretary

Best Available Control Technology (BACT) Determination  
Citrus Hill Manufacturing Company  
Polk County

The applicant has three existing sources which are presently firing natural gas and No. 6 fuel oil (stand-by) at their facility in Frostproof, Florida. The sources, two boilers and a peel dryer are rated at 66, 65, and 90 MMBtu/hr, respectively. The applicant has now requested that these sources be allowed to fire No. 6 fuel oil as an alternative fuel.

This BACT determination is required for the source as set forth in the Florida Administrative Code Rule 17-2.600(6) - Emission Limiting and Performance Standards.

BACT Determination Requested by the Applicant:

The applicant requested that No. 6 fuel oil with a sulfur content up to 1.0 percent be used in addition to natural gas.

BACT Determination by DER:

The amount of particulate and sulfur dioxide emissions from the peel dryer and boilers will be limited by the firing of natural gas and No. 6 fuel oil having a sulfur content not to exceed 1.0 percent, by weight.

BACT Determination Rationale:

Sulfur in fuel is a primary air pollution concern. Most of the sulfur becomes SO<sub>2</sub> when the fuel is burned. Particulate emissions from fuel burning are related to the sulfur content of the fuel. The Department agrees with the applicant's proposal that the firing of No. 6 oil with a sulfur content not to exceed 1.0 percent constitutes BACT as an alternate fuel, since this concentration of sulfur is consistent with previous BACT determinations for similar equipment.

Details of the Analysis May be Obtained by Contacting:

Barry Andrews, P.E., BACT Coordinator  
Department of Environmental Regulation  
Bureau of Air Quality Management  
2600 Blainstone Road  
Tallahassee, Florida 32399-2400

Citrus Hill Manufacturing Company  
Page Two

Recommended by:

\_\_\_\_\_  
C. H. Fancy, P.E.  
Deputy Bureau Chief, BAQM

\_\_\_\_\_ 1988  
Date

Approved by:

\_\_\_\_\_  
Dale Twachtman, Secretary

\_\_\_\_\_ 1988  
Date

State of Florida  
Department of Environmental Regulation  
Notice of Intent

The Department of Environmental Regulation hereby gives notice of its intent to issue permits to Citrus Hill Manufacturing Co. for Boilers Nos. 1 and 2, and Citrus Peel Dryer with Waste Heat Evaporator located at their existing facility in Frostproof, Polk County, Florida. The Department is issuing this Intent to Issue for the reasons stated in the attached Technical Evaluation and Preliminary Determination.

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative determination (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 Department's Office of General Counsel, 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Failure to file a petition within this time period constitutes a waiver of any right such person has 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 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 Rule 28-5.207, Florida Administrative Code, 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 32399-2400. 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  
Bureau of Air Quality Management  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Dept. of Environmental Regulation  
4520 Live Oak Fair Blvd.  
Tampa, Florida 33610-7347

Any person may send written comments on the proposed action to Mr. Bill Thomas 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.

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.

BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of  
Applications for Permits by:

The Citrus Hill Manufacturing Co.	DER File Nos. AC 53-125831
P.O. Box 2000	53-125990
Frostproof, Florida 33843	53-125508

---

INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its Intent to Issue construction permits (copies attached) for the proposed project as detailed in the applications specified above. The Department is issuing this Intent to Issue for the reasons stated in the attached Technical Evaluation and Preliminary Determination.

The applicant, The Citrus Hill Manufacturing Company, applied on October 6, 1986, to the Department of Environmental Regulation for permits to construct Boilers Numbers 1 and 2 and Citrus Peel Dryer with Waste Heat Evaporator at their existing facility in Frostproof, Polk 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 Department has determined that air construction permits were needed for the proposed work.

Pursuant to Section 403.815, F.S. and DER Rule 17-103.150, FAC, you (the applicant) are required to publish at your own expense the enclosed Notice of Proposed Agency Action on permit applications. The notice must be published one time only in a section of a major local newspaper of general circulation in the county in which the project is located and within thirty (30) days from receipt of this intent. Proof of publication must be provided to the Department within seven days of publication of



the notice. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permits.

The Department will issue the permits with the attached conditions unless petition for an administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, F.S. A person 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. Petitions must comply with the requirement of Florida Administrative Code Rules 17-103.155 and 28-5.201 (copies enclosed) and be filed with (received by) the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant must be filed within fourteen (14) days of receipt of this intent. Petitions filed by other persons must be filed within fourteen (14) days of publication of the public notice or within fourteen (14) days of receipt of this intent, whichever first occurs. Failure to file a petition 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, concerning the subject permit application. Petitions which are not filed in accordance with the above provisions will be dismissed.

Executed 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:

Jim McDonald, S.W. Dist.  
Robert Covington, P.E.

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on Jan. 7, 1988.

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
§120.52(9), Florida Statutes, with  
the designated Department Clerk,  
receipt of which is hereby  
acknowledged.

Judy G. Rogers      Jan. 7, 1988  
Clerk                              Date

Technical Evaluation  
and  
Preliminary Determination

The Citrus Hill Manufacturing Company  
Frostproof, Polk County, Florida

Boiler No. 1, Erie City  
Permit No. AC 53-125831

Boiler No. 2, Keeler  
Permit No. AC 53-125990

Citrus Peel Dryer  
Permit No. AC 53-125508

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

January 8, 1988

I. Application

A. Applicant

Citrus Hill Manufacturing Company  
Post Office Box 2000  
Frostproof, Florida 33843

B. Project and Location

The applicant proposes to accurately document the operating parameters of their natural gas fired Boilers No. 1 and 2, and the Citrus Peel Dryer. The maximum heat inputs to these units will be 66 MMBtu/hr, 65 MMBtu/hr and 90 MMBtu/hr, respectively.

The UTM coordinates of their facility are Zone 17, 448 km East and 3068.5 km North.

C. Sources Reviewed

The sources reviewed in this technical evaluation will be:

- (i) Boiler No. 1, Erie City
- (ii) Boiler No. 2, Keeler
- (iii) Peel Dryer with Waste Heat Evaporator

Citrus Hill applied for the construction permits on October 6, 1986, and the application was deemed complete on October 30, 1987.

D. Facility Category

Citrus Hill's facility in Frostproof is "major" as defined by Chapter 17-2 of the Florida Administrative Code (FAC).

It is classified in accordance with the Standard Industrial Classification (SIC) Code as:

- o Major Group 20: Food and Kindred Products
- o Group No. 203: Canned and Preserved Fruits and Vegetables
- o Industry No. 2037: Frozen Fruits, Fruit Juices and Vegetables

All three sources in the evaluation are classified in accordance with the NEDS Source Classification Code (SCC) as 1-02-006-02, Natural Gas Fired Industrial External Combustion Boilers with a heat input capacity of between 10-100 MMBtu/hr.

## II. Project Background

All three sources are existing sources at Citrus Hill's facility. The applicant initially requested that the Boilers No. 1 and 2 and Peel Dryer be permitted for fuel oil firing on a continuous basis. Until now the primary fuel has been natural gas and fuel oil has been permitted only as a standby fuel. In addition, Citrus Hill also requested that inaccurate heat input capacities of the three sources, as documented in operating permits, be corrected during this permitting process.

However, a preliminary analysis conducted by the Department modeling the emission increases under fuel oil fired conditions indicated the possibility of ambient air quality standard violations for SO<sub>2</sub>. In consideration of this preliminary analysis, Citrus Hill revised their permit applications by withdrawing the request for firing fuel oil, but decided to proceed with the updating of construction permits for the three sources, thus documenting the correct heat input capacities in a federally enforceable manner.

## III. Rule Applicability

All three sources under this review will emit pollutants which are products of natural gas combustion i.e., nitrogen oxides, particulates, carbon monoxide, volatile organic compounds and sulfur dioxide. They are subject to the review requirements in accordance with Chapter 403 of the Florida Statutes and Chapters 17-2 and 17-4 of the Florida Administrative Code (FAC).

The project is located in Polk County, an area designated as unclassifiable for particulate matter but attainment for all other criteria pollutants in accordance with Rules 17-2.430 and 17-2.420, FAC, respectively.

The project will not be subject to a Prevention of Significant Deterioration (PSD) review as there will be no net emission increases, in accordance with Rule 17-2.500, FAC.

The project will not be subject to Standards of Performance for New Stationary Sources (NSPS), in accordance with 40 CFR 60 Subpart Db, because the sources pre-empt the applicability date.

The project will be subject to Source Specific Emission Limiting Standards in accordance with Rule 17-2.600(6), FAC, for fossil fuel steam generators with less than 250 MMBtu/hr heat input. The applicable limits are of 5% opacity for visible emissions, and as determined by Best Available Control Technology (BACT) for particulates and sulfur dioxide.

The project will be required to show compliance with emission limiting standards by conducting a compliance test using DER Method 9, for visible emissions in accordance with Rule 17-2.700, FAC.

#### IV. Emission Limitations

The two boilers and peel dryer will emit the pollutants particulate matter (PM), nitrogen oxides (NOx), sulfur dioxide (SO<sub>2</sub>), carbon monoxide (CO) and volatile organic compounds (VOCs). The projected emissions are tabulated below.

Source	Pollutant	Emissions		Heat Input (MMBtu/hr)	Annual Hours
		lb/hr	TPY <sup>3</sup>		
Boiler 1 <sup>1</sup> (Erie City)	NOx	15	37	66.27	4942
	CO	1.1	2.7		
	PM	1	2.5		
	SO <sub>2</sub>	0.04	0.1		
	VOC	0.2	0.5		
Boiler 2 <sup>2</sup> (Keeler)	NOx	13.6	48.3	64.9	7102
	CO	1	3.6		
	PM	1	3.6		
	SO <sub>2</sub>	0.04	0.2		
	VOC	0.2	1		
Peel Dryer <sup>1</sup>	NOx	20.7	52	90.0	4942
	CO	1.5	3.8		
	PM	1.4	3.5		
	SO <sub>2</sub>	0.05	0.2		
	VOC	0.3	0.7		

Visible Emissions for all three sources will be 5% opacity.

BACT as determined by the Department shall be the firing of only natural gas in the three sources under review (see attached BACT).

Note:

<sup>1</sup>These sources operate 24 hours, 6.7 days for 27 weeks; and 24 hrs, 5 days for 5 weeks from November to June.

<sup>2</sup>This source operates 24 hrs, 6.7 days for 27 weeks (Dec-June); and 24 hrs, 5 days for 23 weeks (July-Nov).

<sup>3</sup>TPY is tons per year.

## V. Air Quality Analysis

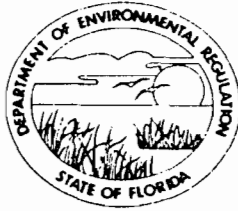
The Department's modeling analysis predicted violations of ambient air quality standards only if fuel oil were to be fired. Since the applicant will fire only natural gas, the Department has reasonable assurance that the sources will not cause or contribute to a violation of any ambient air quality standard.

## VI. Conclusion

Based on the information provided by Citrus Hill, the Department has reasonable assurance that the Boilers No. 1 and 2 and the Citrus Peel Dryer, as described in this evaluation, and subject to the conditions proposed herein, will not cause or contribute to a violation of an ambient air quality standard or PSD increment or any other provisions of Chapter 17-2, FAC.

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING  
2600 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32399-2400



BCE MARTINEZ  
GOVERNOR

DALE TWACHTMANN  
SECRETARY

PERMITTEE:  
The Citrus Hill  
Manufacturing Company  
P. O. Box 2000  
Frostproof, FL 33843

Permit Number: AC 53-125831  
Expiration Date: June 1, 1988  
County: Polk  
Latitude/Longitude: 27° 44' 22"N  
81° 31' 58"W  
Project: Boiler No. 1, Erie City

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 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 66.3 MMBtu/hr heat input Erie City boiler producing upto 51,000 lbs/hr steam at 150 psig. The boiler shall fire only natural gas and is located at Citrus Hill's existing facility in Frostproof, Polk County, Florida.

Construction will be in accordance with the permit application, plans, documents, and reference materials submitted unless otherwise stated in the General and Specific Conditions.

Attachments

1. Citrus Hill's application package dated October 6, 1986.
2. DER's letter of incompleteness dated November 7, 1986.
3. Citrus Hill's letter indicating company's name change, dated March 5, 1987.
4. Citrus Hill's additional information dated May 11, 1987.
5. DER's response dated June 25, 1987.
6. Citrus Hill's application amendment dated September 1, 1987.
7. DER's letter dated October 2, 1987.
8. Citrus Hill's letter dated October 26, 1987.



**PERMITTEE:**  
The Citrus Hill  
Manufacturing Company

**Permit Number: AC 53-125831**  
**Expiration Date: June 1, 1988**

**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:**  
The Citrus Hill  
Manufacturing Company

**Permit Number:** AC 53-125831  
**Expiration Date:** June 1, 1988

**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:**  
The Citrus Hill  
Manufacturing Company

**Permit Number: AC 53-125831**  
**Expiration Date: June 1, 1988**

**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 noncompliance 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:

- (x) 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:**  
The Citrus Hill  
Manufacturing Company

**Permit Number:** AC 53-125831  
**Expiration Date:** June 1, 1988

**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. Boiler No. 1, Erie City, shall operate for a maximum of 4942 hours annually (typically between November and June).
2. The maximum heat input shall not exceed 66.3 MMBtu/hr firing upto 65,000 cu. ft/hr of natural gas.
3. Only natural gas shall be fired in this boiler. Prior Departmental approval shall be obtained before firing any other fuel.

PERMITTEE:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125831  
Expiration Date: June 1, 1988

SPECIFIC CONDITIONS:

4. The projected emissions for Boiler No. 1, Erie City are tabulated below for inventory purposes.

Source	Pollutant	Emissions		Heat Input (MMBtu/hr)	Annual Hours
		lb/hr	TPY		
Boiler 1 (Erie City)	NOx	15	37	66.27	4942
	CO	1.1	2.7		
	PM	1	2.5		
	SO <sub>2</sub>	0.04	0.1		
	VOC	0.2	0.5		

5. Visible emissions shall not exceed 5% opacity.

6. Compliance shall be determined by DER Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources. The Department may require additional tests to be conducted should they be warranted by poor compliance test results.

7. Good combustion practices shall be implemented at all times, as control measures for the pollutants emitted as products of combustion.

8. DER's district office shall be notified in writing 15 days prior to source testing. Written reports of the tests shall be submitted to the district office with 45 days of test completion.

The construction shall reasonably conform to the plans and schedule submitted in the application. If the permittee is unable to complete construction on schedule, the Department must be notified in writing 60 days prior to the expiration of the construction permit and submit a new schedule and request for an extension of the construction permit. (Rule 17-2, FAC)

To obtain a permit to operate, the permittee must demonstrate compliance with the conditions of the construction permit and submit a complete application for an operating permit, including the application fee, along with compliance test results and Certificate of Completion, to the Department's District office 90 days prior to the expiration date of the construction permit.

**PERMITTEE:**  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125831  
Expiration Date: June 1, 1988

The permittee may continue to operate in compliance with all terms of the construction permit until its expiration date. Operation beyond the construction permit expiration date requires a valid permit to operate. (Rule 17-2 and 17-4, FAC)

If the construction permit expires prior to the permittee requesting an extension or obtaining a permit to operate, then all activities at the project must cease and the permittee must apply for a new permit to construct which can take up to 90 days to process a complete application. (Rule 17-4, FAC)

9. Any change in the method of operation, fuels, equipment or operating hours shall be submitted for approval to DER's District office.

10. This permit shall replace all previous permits issued for Boiler No. 1, Erie City.

Issued this \_\_\_\_\_ day of \_\_\_\_\_,  
19\_\_.

**STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION**

\_\_\_\_\_  
Dale Twachtmann, Secretary

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING  
2600 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ  
GOVERNOR  
DALE TWACHTMANN  
SECRETARY

PERMITTEE:  
The Citrus Hill  
Manufacturing Company  
P. O. Box 2000  
Frostproof, FL 33843

Permit Number: AC 53-125990  
Expiration Date: June 1, 1988  
County: Polk  
Latitude/Longitude: 27° 44' 22"N  
81° 31' 58"W  
Project: Boiler No. 2, Keeler

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 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 64.9 MMBtu/hr heat input Keeler boiler producing upto 50,000 lbs/hr steam at 150 psig. The boiler shall fire only natural gas and is located at Citrus Hill's existing facility in Frostproof, Polk County, Florida.

Construction will be in accordance with the permit application, plans, documents, and reference materials submitted unless otherwise stated in the General and Specific Conditions.

Attachments

1. Citrus Hill's application package dated October 6, 1986.
2. DER's letter of incompleteness dated November 7, 1986.
3. Citrus Hill's letter indicating company's name change, dated March 5, 1987.
4. Citrus Hill's additional information dated May 11, 1987.
5. DER's response dated June 25, 1987.
6. Citrus Hill's application amendment dated September 1, 1987.
7. DER's letter dated October 2, 1987.
8. Citrus Hill's letter dated October 26, 1987.

**PERMITTEE:**  
The Citrus Hill  
Manufacturing Company

**Permit Number:** AC 53-125990  
**Expiration Date:** June 1, 1988

**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:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125990  
Expiration Date: June 1, 1988

**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:**  
The Citrus Hill  
Manufacturing Company

**Permit Number:** AC 53-125990  
**Expiration Date:** June 1, 1988

**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 noncompliance 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:

- (x) 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:**  
The Citrus Hill  
Manufacturing Company

**Permit Number: AC 53-125990**  
**Expiration Date: June 1, 1988**

**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 Citrus Peel Dryer shall operate for a maximum of 4942 hours annually (typically between November and June).

2. The maximum heat input to the boiler shall not exceed 90 MMBtu/hr firing upto 90,000 cu. ft/hr of natural gas.

3. Only natural gas shall be fired in this boiler. Prior Departmental approval shall be obtained before firing any other fuel.

PERMITTEE:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125990  
Expiration Date: June 1, 1988

SPECIFIC CONDITIONS:

4. The projected emissions for Boiler No. 2, Keeler are tabulated below for inventory purposes.

Source	Pollutant	Emissions		Heat Input (MMBtu/hr)	Annual Hours
		lb/hr	TPY		
Boiler 2 (Keeler)	NOx	13.6	48.3	64.9	7102
	CO	1	3.6		
	PM	1	3.6		
	SO <sub>2</sub>	0.04	0.2		
	VOC	0.2	1		

5. Visible emissions shall not exceed 5% opacity.

6. Compliance shall be determined by DER Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources. The Department may require additional tests to be conducted should they be warranted by poor compliance test results.

7. Good combustion practices shall be implemented at all times, as control measures for the pollutants emitted as products of combustion.

8. DER's district office shall be notified in writing 15 days prior to source testing. Written reports of the tests shall be submitted to the district office with 45 days of test completion.

The construction shall reasonably conform to the plans and schedule submitted in the application. If the permittee is unable to complete construction on schedule, the Department must be notified in writing 60 days prior to the expiration of the construction permit and submit a new schedule and request for an extension of the construction permit. (Rule 17-2, FAC)

To obtain a permit to operate, the permittee must demonstrate compliance with the conditions of the construction permit and submit a complete application for an operating permit, including the application fee, along with compliance test results and Certificate of Completion, to the Department's District office 90 days prior to the expiration date of the construction permit.

**PERMITTEE:**  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125990  
Expiration Date: June 1, 1988

The permittee may continue to operate in compliance with all terms of the construction permit until its expiration date. Operation beyond the construction permit expiration date requires a valid permit to operate. (Rule 17-2 and 17-4, FAC)

If the construction permit expires prior to the permittee requesting an extension or obtaining a permit to operate, then all activities at the project must cease and the permittee must apply for a new permit to construct which can take up to 90 days to process a complete application. (Rule 17-4, FAC)

9. Any change in the method of operation, fuels, equipment or operating hours shall be submitted for approval to DER's District office.

10. This permit shall replace all previous permits issued for Boiler No. 2, Keeler.

Issued this \_\_\_\_\_ day of \_\_\_\_\_,  
19\_\_.

**STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION**

\_\_\_\_\_  
Dale Twachtmann, Secretary

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING  
2600 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ  
GOVERNOR

DALE TWACHTMANN  
SECRETARY

**PERMITTEE:**  
The Citrus Hill  
Manufacturing Company  
P. O. Box 2000  
Frostproof, FL 33843

Permit Number: AC 53-125508  
Expiration Date: June 1, 1988  
County: Polk  
Latitude/Longitude: 27° 44' 22"N  
81° 31' 58"W  
Project: Citrus Peel Dryer with  
Waste Heat Evaporator

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 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 Citrus Peel Dryer designed to evaporate a maximum of 60,000 lbs/hr of water, fired on natural gas only, at a maximum rate of 90 MMBtu/hr. The dryer, connected to a Waste Heat Evaporator designed to evaporate 90,000 lbs/hr of water, processes a maximum of 87,700 lbs/hr of pressed peel at about 73% moisture (process input rate). The maximum production rate yields 25,000 lbs/hr dried peel at about 11% moisture. The source is located at Citrus Hill's existing facility in Frostproof, Polk County, Florida.

Construction will be in accordance with the permit application, plans, documents, and reference materials submitted unless otherwise stated in the General and Specific Conditions.

Attachments

1. Citrus Hill's application package dated October 6, 1986.
2. DER's letter of incompleteness dated November 7, 1986.
3. Citrus Hill's letter indicating company's name change, dated March 5, 1987.
4. Citrus Hill's additional information dated May 11, 1987.
5. DER's response dated June 25, 1987.
6. Citrus Hill's application amendment dated September 1, 1987.
7. DER's letter dated October 2, 1987.
8. Citrus Hill's letter dated October 26, 1987.

PERMITTEE:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125508  
Expiration Date: June 1, 1988

**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:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125508  
Expiration Date: June 1, 1988

**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:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125508  
Expiration Date: June 1, 1988

**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 noncompliance 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:

- (x) 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:**  
The Citrus Hill  
Manufacturing Company

**Permit Number:** AC 53-125508  
**Expiration Date:** June 1, 1988

**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 Citrus Peel Dryer shall operate for a maximum of 4942 hours annually (typically between November and June).
2. The maximum heat input to the dryer shall not exceed 90 MMBtu/hr firing upto 90,000 cu. ft/hr of natural gas.
3. Only natural gas shall be fired in this dryer. Prior Departmental approval shall be obtained before firing any other fuel.

PERMITTEE:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125508  
Expiration Date: June 1, 1988

SPECIFIC CONDITIONS:

4. The projected emissions for the Citrus Peel Dryer are tabulated below for inventory purposes.

Source	Pollutant	Emissions		Heat Input (MMBtu/hr)	Annual Hours
		lb/hr	TPY		
Peel Dryer	NOx	20.7	52	90.0	4942
	CO	1.5	3.8		
	PM	1.4	3.5		
	SO <sub>2</sub>	0.05	0.2		
	VOC	0.3	0.7		

5. Visible emissions shall not exceed 5% opacity.

6. Compliance shall be determined by DER Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources. The Department may require additional tests to be conducted should they be warranted by poor compliance test results.

7. Good combustion practices shall be implemented at all times, as control measures for the pollutants emitted as products of combustion.

8. DER's district office shall be notified in writing 15 days prior to source testing. Written reports of the tests shall be submitted to the district office with 45 days of test completion.

The construction shall reasonably conform to the plans and schedule submitted in the application. If the permittee is unable to complete construction on schedule, the Department must be notified in writing 60 days prior to the expiration of the construction permit and submit a new schedule and request for an extension of the construction permit. (Rule 17-2, FAC)

To obtain a permit to operate, the permittee must demonstrate compliance with the conditions of the construction permit and submit a complete application for an operating permit, including the application fee, along with compliance test results and Certificate of Completion, to the Department's District office 90 days prior to the expiration date of the construction permit.

PERMITTEE:  
The Citrus Hill  
Manufacturing Company

Permit Number: AC 53-125508  
Expiration Date: June 1, 1988

The permittee may continue to operate in compliance with all terms of the construction permit until its expiration date. Operation beyond the construction permit expiration date requires a valid permit to operate. (Rule 17-2 and 17-4, FAC)

If the construction permit expires prior to the permittee requesting an extension or obtaining a permit to operate, then all activities at the project must cease and the permittee must apply for a new permit to construct which can take up to 90 days to process a complete application. (Rule 17-4, FAC)

9. Any change in the method of operation, fuels, equipment or operating hours shall be submitted for approval to DER's District office.

10. This permit shall replace all previous permits issued for the Citrus Peel Dryer and Waste Heat Evaporator.

Issued this \_\_\_\_\_ day of \_\_\_\_\_,  
19\_\_.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

---

Dale Twachtmann, Secretary



Details of the Analysis May be Obtained by Contacting:

Barry Andrews, P.E., BACT Coordinator  
Department of Environmental Regulation  
Bureau of Air Quality Management  
2600 Blairstone Road  
Tallahassee, Florida 32399-2400

Recommended by:

\_\_\_\_\_  
C. H. Fancy, P.E.  
Deputy Bureau Chief, BAQM

\_\_\_\_\_  
Date

Approved by:

\_\_\_\_\_  
Dale Twachtmann, Secretary

\_\_\_\_\_  
Date



# The Citrus Hill Manufacturing Company

P.O. BOX 2000, FROSTPROOF, FLORIDA 33843

May 18, 1988

RECEIVED

MAY 25 1988

DER-BAQM

Mr. Pradeep Raval  
Bureau of Air Quality Management  
Department of Environmental  
Regulation  
2600 Blair Stone Road  
Twin Tower Office Building  
Tallahassee, FL 32301-8241

RE: Permit Application - AC-125831, 125990, 125508

Dear Pradeep:

I am enclosing the corrected emission calculations regarding particulate for the above-referenced permit application using No. 6 fuel oil. I would also like to thank you for your assistance and understanding while working the issues of these permits.

If you should have further questions, please call me at (813) 635-2211.

Sincerely,

Kenneth J. Ballard  
Environmental Manager

KJB/fa  
0286R

cc Pradeep 5-26-88 PR

EMISSION CALCULATIONS

(Citrus Peel Dryer W/WHE)

## PARTICULATE

$$\frac{13 \text{ LB}}{1000 \text{ GAL}} \times \frac{580 \text{ Gal}}{\text{HR}} = 7.54 \text{ LB/HR} \times 4942 \text{ HR/YR} = 37263 \text{ LB/YR}$$

$$\frac{37263 \text{ LB/YR}}{2000 \text{ LB/TON}} = 18.63 \text{ TON/YR}$$

SO<sub>2</sub>

$$\frac{(157) (1.0) \text{ LB/YR}}{1000 \text{ GAL}} \times \frac{580 \text{ GAL}}{\text{HR}} = 91.06 \text{ LB/HR} \times 4942 \text{ HR/YR} = 450019 \text{ LB/YR}$$

$$\frac{450019 \text{ LB/YR}}{2000 \text{ LB/TON}} = 225.0 \text{ TON/YR}$$

## NITROGEN OXIDES

$$\frac{80 \text{ LB}}{1000 \text{ GAL}} \times \frac{580 \text{ GAL}}{\text{HR}} = 46.40 \text{ LB/HR} \times 4942 \text{ HR/YR} = 229309 \text{ LB/YR}$$

$$\frac{229309 \text{ LB/YR}}{2000 \text{ LB/TON}} = 114.65 \text{ TON/YR}$$

## CARBON MONOXIDE

$$\frac{4 \text{ LB}}{1000 \text{ GAL}} \times \frac{580 \text{ GAL}}{\text{HR}} = 2.32 \text{ LB/HR} \times 4942 \text{ HR/YR} = 11465$$

$$\frac{11465 \text{ LB/YR}}{2000 \text{ LB/TON}} = 5.73 \text{ TON/YR}$$

## HYDROCARBONS

$$\frac{3 \text{ LB}}{1000 \text{ GAL}} \times \frac{580 \text{ GAL}}{\text{HR}} = 1.74 \text{ LB/HR} \times 4942 \text{ HR/Yr} = 8599 \text{ LB/YR}$$

$$\frac{8599 \text{ LB/YR}}{2000 \text{ LB/TON}} = 4.30 \text{ TON/YR}$$

CALCULATIONS BASED ON: 580 GAL/HR No. 6 Fuel Oil  
4942 HR/YR OPERATION

EMISSION FACTORS FROM AP-42, Table 1.3-1

0276R



**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		
Wet Citrus Peel	Particulate		15200 lb/hr	
Lime	Particulate		680 lb/hr	
		Total 0.02		

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

1. Total Process Input Rate (lbs/hr): 152,000 lb/hr Wet Citrus Peel
2. Product Weight (lbs/hr): 32,000 lb/hr (dried feed - 10% moist)

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

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission Rate per Rule 17-2	Allowable <sup>3</sup> Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Particulate	7.54	18.63			37263	18.63	
SO <sub>2</sub>	91.06	225.00			450019	225.00	
NO <sub>2</sub>	46.40	114.65			229309	114.65	
CO	2.32	5.73			11465	5.73	
CH <sub>4</sub>	1.74	4.30			8599	4.30	

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

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

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

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

EMISSION CALCULATIONS

(Boiler No. 1, Erie City)

PARTICULATE

$$\frac{13 \text{ LB}}{1000 \text{ GAL}} \times \frac{419.1}{\text{HR}} = 5.45 \text{ LB/HR} \times 4942 \text{ HR/YR} = 26934 \text{ LB/YR}$$

$$\frac{26934 \text{ LB/YR}}{2000 \text{ LB/TON}} = 13.47 \text{ TON/YR}$$

SO<sub>2</sub>

$$\frac{(157) (1.0) \text{ LB/YR}}{1000 \text{ GAL}} \times \frac{419.1 \text{ GAL}}{\text{HR}} = 65.80 \text{ LB/HR} \times 4942 \text{ HR/YR} = 325184 \text{ LB/YR}$$

$$\frac{325184 \text{ LB/YR}}{2000 \text{ LB/TON}} = 162.60 \text{ TON/YR}$$

NITROGEN OXIDES

$$\frac{80 \text{ LB}}{1000 \text{ GAL}} \times \frac{419.1 \text{ GAL}}{\text{HR}} = 33.53 \text{ LB/HR} \times 4942 \text{ HR/YR} = 165705 \text{ LB/YR}$$

$$\frac{165705 \text{ LB/YR}}{2000 \text{ LB/TON}} = 82.85 \text{ TON/YR}$$

CARBON MONOXIDE

$$\frac{4 \text{ LB}}{1000 \text{ GAL}} \times \frac{419.1 \text{ GAL}}{\text{HR}} = 1.68 \text{ LB/HR} \times 4942 \text{ HR/YR} = 8303 \text{ LB/YR}$$

$$\frac{8303 \text{ LB/YR}}{2000 \text{ LB/TON}} = 4.15 \text{ TON/YR}$$

HYDROCARBONS

$$\frac{3 \text{ LB}}{1000 \text{ GAL}} \times \frac{419.1 \text{ GAL}}{\text{HR}} = 1.26 \text{ LB/HR} \times 4942 \text{ HR/Yr} = 6227 \text{ LB/YR}$$

$$\frac{6227 \text{ LB/YR}}{2000 \text{ LB/TON}} = 3.11 \text{ TON/YR}$$

- CALCULATIONS BASED ON: 419.1 GAL/HR No. 6 Fuel Oil  
4942 HR/YR OPERATION

EMISSION FACTORS FROM AP-42, Table 1.3-1

0276R

**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		

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

1. Total Process Input Rate (lbs/hr): Not Applicable

2. Product Weight (lbs/hr): Not Applicable

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

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission Rate per Rule 17-2	Allowable <sup>3</sup> Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Particulate	5.45	13.47			26934	13.47	
SO <sub>2</sub>	65.80	162.60			325184	162.60	
NO <sub>2</sub>	33.53	82.85			165705	82.85	
CO	1.68	4.15			8303	4.15	
CH <sub>4</sub>	1.26	3.11			6227	3.11	

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

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

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

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

EMISSION CALCULATIONS

(Boiler No. 2, Keeler)

PARTICULATE

$$\frac{13 \text{ LB}}{1000 \text{ GAL}} \times \frac{405.5}{\text{HR}} = 5.27 \text{ LB/HR} \times 7102 \text{ HR/YR} = 37428 \text{ LB/YR}$$

$$\frac{37428 \text{ LB/YR}}{2000 \text{ LB/TON}} = 18.71 \text{ TON/YR}$$

SO<sub>2</sub>

$$\frac{(157) (1.0) \text{ LB/YR}}{1000 \text{ GAL}} \times \frac{405.5 \text{ GAL}}{\text{HR}} = 63.66 \text{ LB/HR} \times 7102 \text{ HR/YR} = 452113 \text{ LB/YR}$$

$$\frac{452113 \text{ LB/YR}}{2000 \text{ LB/TON}} = 226.1 \text{ TON/YR}$$

NITROGEN OXIDES

$$\frac{80 \text{ LB}}{1000 \text{ GAL}} \times \frac{405.5 \text{ GAL}}{\text{HR}} = 32.44 \text{ LB/HR} \times 7102 \text{ HR/YR} = 230389 \text{ LB/YR}$$

$$\frac{230389 \text{ LB/YR}}{2000 \text{ LB/TON}} = 115.19 \text{ TON/YR}$$

CARBON MONOXIDE

$$\frac{4 \text{ LB}}{1000 \text{ GAL}} \times \frac{405.5 \text{ GAL}}{\text{HR}} = 1.62 \text{ LB/HR} \times 7102 \text{ HR/YR} = 115505$$

$$\frac{11505 \text{ LB/YR}}{2000 \text{ LB/TON}} = 5.75 \text{ TON/YR}$$

HYDROCARBONS

$$\frac{3 \text{ LB}}{1000 \text{ GAL}} \times \frac{405.5 \text{ GAL}}{\text{HR}} = 1.22 \text{ LB/HR} \times 7102 \text{ HR/Yr} = 8664 \text{ LB/YR}$$

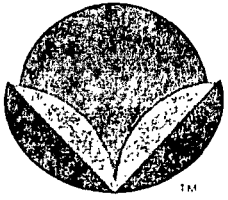
$$\frac{8664 \text{ LB/YR}}{2000 \text{ LB/TON}} = 4.33 \text{ TON/YR}$$

CALCULATIONS BASED ON: 405.5 GAL/HR No. 6 Fuel Oil  
7102 HR/YR OPERATION

EMISSION FACTORS FROM AP-42, Table 1.3-1

0276R

5 May 1988  
Frostproof, FL



# The Citrus Hill Manufacturing Company

P.O. BOX 2000, FROSTPROOF, FLORIDA 33843

May 3, 1988

Mr. Pradeep Raval  
Bureau of Air Quality Management  
Department of Environmental  
Regulation  
2600 Blairstone Road  
Twin Tower Office Building  
Tallahassee, FL 32301-8241

RECEIVED

MAY 09 1988

RE: Permit Application AC53-125831  
125990  
125508

DER-BAQM

Dear Mr. Raval:

As we have discussed, it is most important for The Citrus Hill Manufacturing Company to have a back-up source of fuel in the event of a curtailment of natural gas. Therefore, in an effort to achieve our desire of natural gas as a primary fuel and No. 6 fuel oil as a stand-by fuel, we are submitting calculations that reflect 1% No. 6 fuel sulfur content and trust these will be sufficient to proceed with our permit applications.

If you should have further questions or need additional information, please call me at (813) 635-2211.

Sincerely,

Kenneth J. Ballard  
Environmental Manager

KJB/fa  
0276R

Copied: Pradeep Raval  
Jim McDonald, SW Dist. } 5.10.88  
CHF/BT

EMISSION CALCULATIONS

(Citrus Peel Dryer W/WHE)

[AP-42]

PARTICULATE

check 13  $\frac{25 \text{ LB}}{1000 \text{ GAL}} \times \frac{580 \text{ Gal}}{\text{HR}} = 7.54 \text{ LB/HR} \times 4942 \text{ HR/YR} = 65926 \text{ LB/YR}$

$\frac{65926 \text{ LB/YR}}{2000 \text{ LB/TON}} = 32.96 \text{ TON/YR}$

$[10(S) + 3] \frac{16}{1000 \text{ gal}} = \frac{1316}{1000 \text{ gal}}$

SO<sub>2</sub>

OK  $\frac{(157) (1.0) \text{ LB/YR}}{1000 \text{ GAL}} \times \frac{580 \text{ GAL}}{\text{HR}} = 91.06 \text{ LB/HR} \times 4942 \text{ HR/YR} = 450019 \text{ LB/YR}$

$\frac{450019 \text{ LB/YR}}{2000 \text{ LB/TON}} = 225.0 \text{ TON/YR}$

157 (S)

NITROGEN OXIDES

check  $\frac{80 \text{ LB}}{1000 \text{ GAL}} \times \frac{580 \text{ GAL}}{\text{HR}} = 46.40 \text{ LB/HR} \times 4942 \text{ HR/YR} = 229309 \text{ LB/YR}$

$\frac{229309 \text{ LB/YR}}{2000 \text{ LB/TON}} = 114.65 \text{ TON/YR}$

$22 + 400(N)^2 \text{ or } 55$

CARBON MONOXIDE

OK  $\frac{4 \text{ LB}}{1000 \text{ GAL}} \times \frac{580 \text{ GAL}}{\text{HR}} = 2.32 \text{ LB/HR} \times 4942 \text{ HR/YR} = 11465$

$\frac{11465 \text{ LB/YR}}{2000 \text{ LB/TON}} = 5.73 \text{ TON/YR}$

5

HYDROCARBONS

OK  $\frac{3 \text{ LB}}{1000 \text{ GAL}} \times \frac{580 \text{ GAL}}{\text{HR}} = 1.74 \text{ LB/HR} \times 4942 \text{ HR/Yr} = 8599 \text{ LB/YR}$

$\frac{8599 \text{ LB/YR}}{2000 \text{ LB/TON}} = 4.30 \text{ TON/YR}$

0.28

CALCULATIONS BASED ON: 580 GAL/HR No. 6 Fuel Oil  
4942 HR/YR OPERATION

EMISSION FACTORS FROM AP-42, Table 1.3-1

EMISSION CALCULATIONS

(Boiler No. 1, Erie City)

PARTICULATE

13  $\left( \frac{25 \text{ LB}}{1000 \text{ GAL}} \right) \times \frac{419.1 \text{ GAL}}{\text{HR}} = 9.64 \text{ LB/HR} \times 4942 \text{ HR/YR} = 47637 \text{ LB/YR}$  <sup>5.45</sup>

$\frac{47637 \text{ LB/YR}}{2000 \text{ LB/TON}} = 23.81 \text{ TON/YR}$  <sup>13.46</sup>

SO<sub>2</sub>

$\frac{(157) (1.0) \text{ LB/YR}}{1000 \text{ GAL}} \times \frac{419.1 \text{ GAL}}{\text{HR}} = 65.80 \text{ LB/HR} \times 4942 \text{ HR/YR} = 325184 \text{ LB/YR}$

$\frac{325184 \text{ LB/YR}}{2000 \text{ LB/TON}} = 162.60 \text{ TON/YR}$

NITROGEN OXIDES

$\left( \frac{80 \text{ LB}}{1000 \text{ GAL}} \right) \times \frac{419.1 \text{ GAL}}{\text{HR}} = 33.53 \text{ LB/HR} \times 4942 \text{ HR/YR} = 165705 \text{ LB/YR}$

$\frac{165705 \text{ LB/YR}}{2000 \text{ LB/TON}} = 82.85 \text{ TON/YR}$

CARBON MONOXIDE

$\frac{4 \text{ LB}}{1000 \text{ GAL}} \times \frac{419.1 \text{ GAL}}{\text{HR}} = 1.68 \text{ LB/HR} \times 4942 \text{ HR/YR} = 8303 \text{ LB/YR}$

$\frac{8303 \text{ LB/YR}}{2000 \text{ LB/TON}} = 4.15 \text{ TON/YR}$

HYDROCARBONS

$\frac{3 \text{ LB}}{1000 \text{ GAL}} \times \frac{419.1 \text{ GAL}}{\text{HR}} = 1.26 \text{ LB/HR} \times 4942 \text{ HR/Yr} = 6227 \text{ LB/YR}$

$\frac{6277 \text{ LB/YR}}{2000 \text{ LB/TON}} = 3.11 \text{ TON/YR}$

CALCULATIONS BASED ON: 419.1 GAL/HR No. 6 Fuel Oil  
4942 HR/YR OPERATION

EMISSION FACTORS FROM AP-42, Table 1.3-1

0276R

EMISSION CALCULATIONS

(Boiler No. 2, Keeler)

PARTICULATE

13  $\frac{23 \text{ LB}}{1000 \text{ GAL}} \times \frac{405.5 \text{ GAL}}{\text{HR}} = 9.33 \text{ LB/HR} \times 7102 \text{ HR/YR} = 66262 \text{ LB/YR}$  5.27

$\frac{66262 \text{ LB/YR}}{2000 \text{ LB/TON}} = 33.13 \text{ TON/YR}$  18.72

SO<sub>2</sub>

$\frac{(157) (1.0) \text{ LB/YR}}{1000 \text{ GAL}} \times \frac{405.5 \text{ GAL}}{\text{HR}} = 63.66 \text{ LB/HR} \times 7102 \text{ HR/YR} = 452113 \text{ LB/YR}$

$\frac{452113 \text{ LB/YR}}{2000 \text{ LB/TON}} = 226.1 \text{ TON/YR}$

NITROGEN OXIDES

$\frac{80 \text{ LB}}{1000 \text{ GAL}} \times \frac{405.5 \text{ GAL}}{\text{HR}} = 32.44 \text{ LB/HR} \times 7102 \text{ HR/YR} = 230389 \text{ LB/YR}$

$\frac{230389 \text{ LB/YR}}{2000 \text{ LB/TON}} = 115.19 \text{ TON/YR}$

CARBON MONOXIDE

$\frac{4 \text{ LB}}{1000 \text{ GAL}} \times \frac{405.5 \text{ GAL}}{\text{HR}} = 1.62 \text{ LB/HR} \times 7102 \text{ HR/YR} = 115505$

$\frac{115505 \text{ LB/YR}}{2000 \text{ LB/TON}} = 5.75 \text{ TON/YR}$

HYDROCARBONS

$\frac{3 \text{ LB}}{1000 \text{ GAL}} \times \frac{405.5 \text{ GAL}}{\text{HR}} = 1.22 \text{ LB/HR} \times 7102 \text{ HR/Yr} = 8664 \text{ LB/YR}$

$\frac{8664 \text{ LB/YR}}{2000 \text{ LB/TON}} = 4.33 \text{ TON/YR}$

CALCULATIONS BASED ON: 405.5 GAL/HR No. 6 Fuel Oil  
7102 HR/YR OPERATION

EMISSION FACTORS FROM AP-42, Table 1.3-1



**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		
Wet Citrus Peel	Particulate		15200 lb/hr	
Lime	Particulate		680 lb/hr	
		Total 0.02		

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

1. Total Process Input Rate (lbs/hr): 152,000 lb/hr Wet Citrus Peel
2. Product Weight (lbs/hr): 32,000 lb/hr (dried feed - 10% moist)

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

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission Rate per Rule 17-2	Allowable Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Particulate	13.34	32.96			65926	32.96	
SO <sub>2</sub>	91.06	225.00			450019	225.00	
NO <sub>2</sub>	46.40	114.65			229309	114.65	
CO	2.32	5.73			11465	5.73	
CH <sub>4</sub> <sup>VOC</sup>	1.74	4.30			8599	4.30	

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

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

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

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

**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		

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

- Total Process Input Rate (lbs/hr): Not Applicable
- Product Weight (lbs/hr): Not Applicable

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

Name of Contaminant	Emission <sup>1</sup>		Allowed <sup>2</sup> Emission Rate per Rule 17-2	Allowable <sup>3</sup> Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual I/yr			lbs/yr	I/yr	
Particulate	9.64	23.81			47637	23.81	
SO <sub>2</sub>	65.80	162.60			325184	162.60	
NO <sub>2</sub>	33.53	82.85			165705	82.85	
CO	1.68	4.15			8303	4.15	
CH <sub>4</sub> VOC	1.26	3.11			6227	3.11	

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

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

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

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

**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		

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

1. Total Process Input Rate (lbs/hr): Not Applicable
2. Product Weight (lbs/hr): Not Applicable

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

Name of Contaminant	Emission <sup>1</sup>		Allowed <sup>2</sup> Emission Rate per Rule 17-2	Allowable <sup>3</sup> Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Particulate	9.33	33.13			66262	33.13	
SO <sub>2</sub>	63.66	226.10			452113	226.10	
NO <sub>2</sub>	32.44	115.19			230389	115.19	
CO	1.62	5.75			115505	5.75	
CH <sub>4</sub> <i>✓ VOC</i>	1.22	4.33			8664	4.33	

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

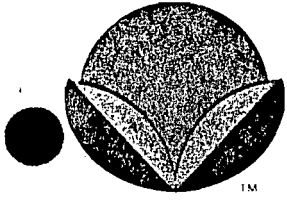
<sup>2</sup>Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million BTU heat input)

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

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

PN  
March 14, 1988  
Frostproof, FL

Jul Copy



# The Citrus Hill Manufacturing Company

P.O. BOX 2000, FROSTPROOF, FLORIDA 33843

March 10, 1988

Mr. Dale Twachtmann  
State of Florida  
Department of Environmental Regulation  
Twin Towers Office Building  
2600 Blainstone Road  
Tallahassee, FL 32301

RECEIVED

MAR 16 1988

DER-BAQM


RE: DER File Nos. AC 53-125831  
53-125990  
53-125508

Dear Secretary Twachtmann:

After discussion with Mr. Prodeep Roval of the Department, and also reviewing our progress in dealing with the standby fuel issue on the referenced construction permits it is apparent we need additional time to deal with it. We, the Citrus Hill Manufacturing Company, requests and additional sixty (60) days time to work on the situation.

If there are any questions regarding this request, please write to me at the above address or call Ken Ballard at (813) 635-2211. Thank you for your attention to this matter.

Sincerely,

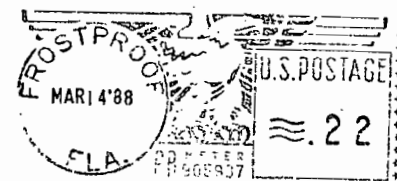
  
Don W. Wise, Jr.  
Plant Engineer

DWW/fa  
cc: Mr. Bill Thomas/CHM } 3.17.88 mm  
Mr. Prodeep Roval  
Ms. Betsy Pittman

0404W

**The Citrus Hill Manufacturing Company**

P.O. BOX 2000  
FROSTPROOF, FLORIDA 33843



Mr. Pradeep Roval  
State of Florida  
Bureau of Air Quality Management  
Twin Towers Office Building  
2600 Blairstone Road  
Tallahassee, FL 32301-8241





# The Citrus Hill Manufacturing Company

P.O. BOX 2000, FROSTPROOF, FLORIDA 33843

January 19, 1988

Mr. Dale Twachtmann, Secretary  
State of Florida  
Department of Environmental Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32301

PM  
1.20.88  
Just proof, FL  
file copy  
DER  
JAN 25, 88 (m)  
BAQM

Re: DER File Nos. AC 53-125831  
53-125990  
53-125508

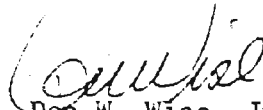
Dear Secretary Twachtmann:

Upon reviewing drafts of referenced construction permits, The Citrus Hill Manufacturing Company requests an extension of (60) days duration of time prior to publishing a Notice of Intent for these permits. This additional time will allow us the opportunity to seek a workable solution to the problem of no longer having the opportunity of using standby fuel as was part of the previous permits when our primary fuel source was curtailed.

After discussing the matter with Ms. Betsey Pittman of the Department's Office of General Counsel, she indicated she understood our problem and felt our request for an extension was justifiable.

If there are any questions regarding this request, please write me at the above address or call Ken Ballard 813-635-2211. Thank you for your attention in this matter.

Sincerely,

  
Don W. Wise, Jr.  
Plant Engineer

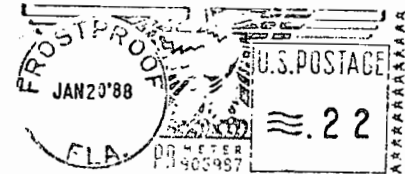
DWWJR:RFS  
0258R

cc: Ms. Betsey Pittman  
Mr. Bill Thomas / CHF }  
Mr. Pradeep Raval

1.26.88 (m)

**The Citrus Hill Manufacturing Company**

P.O. BOX 2000  
FROSTPROOF, FLORIDA 33843



1-26-88

~~CH~~ } FYI

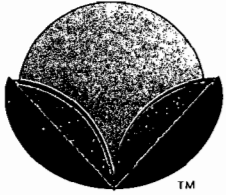
(4)

Mr. Bill Thomas  
Air Quality Management  
State of Florida  
Department of Environmental Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32301



PM  
28 Oct. 1987  
Frostproof, FL

File copy



# The Citrus Hill Manufacturing Company

P.O. BOX 2000, FROSTPROOF, FLORIDA 33843

DER

OCT 30 1987

BAQM

October 26, 1987

Mr. C. H. Fancy, P.E.  
Deputy Chief  
Bureau of Air Quality Management  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

RE: Revision of Permit Modification Application for:  
Boiler No. 1 Erie City, AC 53-125831  
Boiler No. 2 Keeler, AC 53-125990

Dear Mr. Fancy:

I have enclosed the corrected copies of the emission calculations for AC 53-125821 and AC 53-125990 you requested. It is my understanding the application for AC 53-125508 is satisfactory.

Please accept my apology for any inconvenience this error may have incurred.

If you have any additional questions, please call me at 813-635-2211.

Sincerely,

Kenneth Ballard  
Environmental Manager

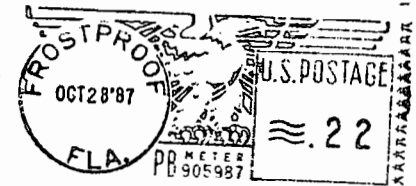
KJB:vdg  
0243R

Copies: P. Raval  
CHF/BT

Jim McDonald - SW Dist 10/30/87

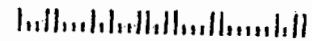


K. J. BALLARD  
**The Citrus Hill Manufacturing Company**  
P.O. BOX 2000  
FROSTPROOF, FLORIDA 33843



10/30/87  
~~CF~~ } FYI  
~~BF~~  
④

Mr. C. H. Fancy, P.E.  
Deputy Chief  
Bureau of Air Quality Management  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400



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		

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

1. Total Process Input Rate (lbs/hr): \_\_\_\_\_

2. Product Weight (lbs/hr): \_\_\_\_\_

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

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission Rate per Rule 17-2	Allowable <sup>3</sup> Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Particulates	.975	2.4			4818	2.4	
SO2	.039	.096			193	.096	
CO	1.1	2.7			5436	2.7	
CH4	.195	.48			964	.48	
NO2	14.95	36.94			73883	36.94	

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

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

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

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

EMISSION CALCULATION

Emission estimates from Table 1-4-1, "Emission Factors for Natural Gas Combustion," AP42.

No. 1 Boiler (Erie City)

Basis - Fuel Consumption	65,000 Ft <sup>3</sup> /Hr	Gas
Hours of Operations	4,942 Hrs/Yr.	

Particulate Emissions

$$\frac{15 \text{ lbs.}}{1,000,000 \text{ Ft}^3} \times 65,000 \text{ Ft}^3/\text{Hr.} = .975 \text{ lbs/Hr.} \times 4942 = 4818 \text{ lb./Yr.}$$
$$\frac{4818}{2000} = 2.4 \text{ Tons/Yr.}$$

SO<sub>2</sub>

$$\frac{.6 \text{ lb.}}{1,000,000 \text{ Ft}^3} \times 65,000 \text{ Ft}^3/\text{Hr.} = .039 \text{ lb/Hr.} \times 4942 = 192.7 \text{ lb/Yr.}$$
$$\frac{192.7}{2000} = .096 \text{ Tons/Yr.}$$

CO

$$\frac{17 \text{ lbs.}}{1,000,000 \text{ Ft}^3} \times 65,000 \text{ Ft}^3/\text{Hr.} = 1.1 \text{ lb/Hr.} \times 4942 = 5436 \text{ lb/Yr}$$
$$\frac{5436}{2000} = 2.7 \text{ Tons/Yr}$$

CH<sub>4</sub>

$$\frac{3 \text{ lbs}}{1,000,000 \text{ Ft}^3} \times 65,000 \text{ Ft}^3/\text{Hr.} = .195 \text{ lb/Hr.} \times 4942 = 964 \text{ lb/Yr.}$$
$$\frac{964}{2000} = .48 \text{ Tons/Yr.}$$

NO<sub>2</sub>

$$\frac{230 \text{ lbs}}{1,000,000} \times 65000 \text{ Ft}^3/\text{Hr} = 14.95 \text{ lb/Hr} \times 4942 = 73883 \text{ lb/Yr.}$$
$$\frac{73883}{2000} = 36.94 \text{ Tons/Yr.}$$

**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		

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

1. Total Process Input Rate (lbs/hr): \_\_\_\_\_

2. Product Weight (lbs/hr): \_\_\_\_\_

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

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission Rate per Rule 17-2	Allowable <sup>3</sup> Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Particulates	.885	3.1			6285	3.1	
SO2	.035	.12			249	.12	
CO	1.0	3.6			7102	3.6	
CH4	.177	.63			1257	.63	
NO2	13.6	48.3			96587	48.3	

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

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

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

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

## EMISSION CALCULATION

Emission estimates from Table 1-4-1, "Emission Factors for Natural Gas Combustion," AP42.

No. 2 Boiler (Keeler)

Basis Fuel Consumption  
Hours of Operation

59,000 Ft<sup>3</sup>/Hr Gas  
7102 Hrs/Yr

### Particulate Emissions

$$\begin{array}{l} \frac{15 \text{ lb}}{1,000,000} \times 59,000 \frac{\text{Ft}^3}{\text{Hr}} = .885 \frac{\text{LB}}{\text{Hr}} \times 7102 \frac{\text{Hr}}{\text{Yr}} = 6285 \frac{\text{LB}}{\text{Yr}} \\ \frac{6285}{2000} = 3.1 \text{ Tons/Yr.} \end{array}$$

### S02

$$\begin{array}{l} \frac{.6 \text{ lb}}{1,000,000} \times 59,000 \frac{\text{Ft}^3}{\text{Hr}} = .035 \frac{\text{LB}}{\text{Hr}} \times 7102 \frac{\text{Hr}}{\text{Yr}} = 249 \frac{\text{LB}}{\text{Yr}} \\ \frac{249}{2000} = .12 \text{ Tons/Yr} \end{array}$$

### CO

$$\begin{array}{l} \frac{17 \text{ lb}}{1,000,000} \times 59,000 \frac{\text{Ft}^3}{\text{Hr}} = 1.0 \frac{\text{LB}}{\text{Hr}} \times 7102 \frac{\text{Hr}}{\text{Yr}} = 7102 \frac{\text{LB}}{\text{Yr}} \\ \frac{7102}{2000} = 3.6 \text{ Tons/Yr.} \end{array}$$

### CH4

$$\begin{array}{l} \frac{3 \text{ LB}}{1,000,000} \times 59,000 \frac{\text{Ft}^3}{\text{Hr}} = .177 \frac{\text{LB}}{\text{Hr}} \times 7102 \frac{\text{Hr}}{\text{Yr}} = 1257 \frac{\text{LB}}{\text{Yr}} \\ \frac{1257}{2000} = .63 \text{ Tons/Yr} \end{array}$$

### No2

$$\begin{array}{l} \frac{230 \text{ LB}}{1,000,000} \times 59,000 \frac{\text{Ft}^3}{\text{Hr}} = 13.6 \frac{\text{LB}}{\text{Hr}} \times 7102 \frac{\text{Hr}}{\text{Yr}} = 96587 \\ \frac{96587}{2000} = 48.3 \text{ Tons/Yr} \end{array}$$

P 274 007 680

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

PS Form 3800, June 1985  
\* U.S.G.P.O. 1985-480-794

Sent to Kenneth Ballard	
The Citrus Hill Mfg. Co.	
Street and No.	
P.O. Box 2000	
P.O., State and ZIP Code	
Frostproof, FL 33843	
Postage	S
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	S
Postmark or Date	Mailed: 10/02/87
Permits:	AC 53-125831,990 and 508

PS Form 3811, July 1983 447-845

● 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. Kenneth Ballard  
The Citrus Hill Manufacturing Co.  
P.O. Box 2000  
Frostproof, FL 33843

4. Type of Service:	Article Number
<input type="checkbox"/> Registered <input type="checkbox"/> Insured	P 274 007 680
<input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD	
<input type="checkbox"/> Express Mail	

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Addressee  
X

6. Signature - Agent  
X Robert Lapp

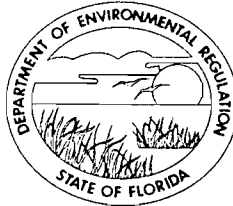
7. Date of Delivery  
105-07

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

DOMESTIC RETURN RECEIPT

*File Copy*

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION



TWIN TOWERS OFFICE BUILDING  
2600 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32399-2400

BOB MARTINEZ  
GOVERNOR  
DALE TWACHTMANN  
SECRETARY

October 2, 1987

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Kenneth Ballard  
The Citrus Hill Manufacturing Co.  
P.O. Box 2000  
Frostproof, FL 33843

Dear Mr. Ballard:

Re: Review of Permit Modification Application for:  
Boiler 1, Erie City, AC 53-125831  
Boiler 2, Keeler, AC 53-125990  
Citrus Peel Dryer, AC 53-125508

The Department has received your submittal dated September 1, 1987, containing revised operating hours and boiler operating parameters.

The emission calculations do not correspond with data submitted on May 11, 1987.

Please reconcile the numbers so as to accurately document equipment capabilities and projected emissions from your facility.

If you have any questions, please call Pradeep Raval at (904) 488-1344 or write to me at the above address.

Sincerely,

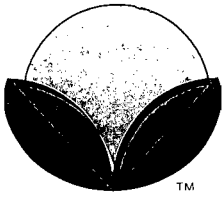
C. H. Fancy, P.E.  
Deputy Chief  
Bureau of Air Quality  
Management

CF/PR/ss

cc: Jim McDonald

PM  
02 Sept 87  
Frostproof, FL

file copy



# The Citrus Hill Manufacturing Company

P.O. BOX 2000, FROSTPROOF, FLORIDA 33843

DER

SEP 4 1987

BAQM

September 1, 1987

Mr. Pradeep Raval  
Bureau of Air Quality Management  
Department of Environmental Regulation  
2600 Blair Stone Road  
Twin Tower Office Building  
Tallahassee, Florida 32301-8241

Re: Permit Modification Applications AC53-125831  
AC53-125990  
AC53-125508

Dear Pradeep:

As per our latest discussion of August 31, 1987, it is The Citrus Hill Manufacturing Company's desire to postpone the referenced permit modifications as originally submitted at this time.

While dropping the request for using No. 6 fuel oil as an alternate fuel on these sources, we do want to correct any inaccurate information that may exist on the permits.

I am enclosing attachments that describe the correct boilers by name, number and also the estimated emissions based on anticipated hours of operation. I trust this information will be sufficient to amend the permits as they were originally submitted.

If you should have further questions regarding this request, please contact me at 813-635-2211.

Sincerely,

Kenneth J. Ballard  
Environmental Manager

KJB/rs  
0236R

Copies P. Raval } 9/3/87  
CHF/ST }  
Jim McDonald - SW Dist - 9/9/87 (m)



**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		

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

1. Total Process Input Rate (lbs/hr): \_\_\_\_\_

2. Product Weight (lbs/hr): \_\_\_\_\_

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

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission Rate per Rule 17-2	Allowable <sup>3</sup> Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Particulates	.99	2.4			4893	2.4	
SO <sub>2</sub>	.04	.10			198	.10	
CO	1.1	2.7			5436	2.7	
CH <sub>4</sub>	.20	.49			988	.49	
NO <sub>2</sub>	15.2	37.5			75118	37.5	

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

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

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

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

EMISSION CALCULATION

Emission estimates from Table 1-4-1, "Emission Factors for Natural Gas Combustion," AP42

No. 1 Boiler (Erie City)

Basis - Fuel consumption 66,272 Ft.<sup>3</sup>/Hr. Gas

Hours of operation 4,942 Hrs./Yr.

Particulate Emissions

$$\frac{15 \text{ lbs.}}{1,000,000 \text{ Ft.}^3} \times 66,272 \text{ Ft.}^3/\text{Hr.} = .99 \text{ Lb./Hr.} \times 4942 \text{ Hr./Yr.} = 4893 \text{ Lb./Yr.}$$
$$\frac{4893}{2000} = 2.44 \text{ Tons/Yr.}$$

SO<sub>2</sub>

$$\frac{.6 \text{ lb}}{1,000,000 \text{ Ft.}^3} \times 66,272 \text{ Ft.}^3/\text{Hr.} = .04 \text{ Lb./Hr.} \times 4942 \text{ Hr./Yr.} = 198 \text{ Lb./Yr.}$$
$$\frac{198}{2000} = .099 \text{ Tons/Yr.}$$

CO

$$\frac{17 \text{ lbs}}{1,000,000 \text{ Ft.}^3} \times 66,272 \text{ Ft.}^3/\text{Hr.} = 1.1 \text{ Lb./Hr.} \times 4942 \text{ Hr./Yr.} = 5436 \text{ Lb./Yr.}$$
$$\frac{5436}{2000} = 2.71 \text{ Tons/Yr.}$$

CH<sub>4</sub>

$$\frac{3 \text{ lbs.}}{1,000,000 \text{ Ft.}^3} \times 66,272 \text{ Ft.}^3/\text{Hr.} = .20 \text{ Lb./Hr.} \times 4942 \text{ Hr./Yr.} = 988 \text{ Lb./Yr.}$$
$$\frac{988}{2000} = .49 \text{ Tons/Yr.}$$

No<sub>2</sub>

$$\frac{230 \text{ lb.}}{1,000,000 \text{ Ft.}^3} \times 66,272 \text{ Ft.}^3/\text{Hr.} = 15.2 \text{ Lb./Hr.} \times 4942 \text{ Hr./Yr.} = 75118 \text{ Lb./Yr.}$$
$$\frac{75118}{2000} = 37.55 \text{ Tons/Yr.}$$

**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		

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

1. Total Process Input Rate (lbs/hr): \_\_\_\_\_

2. Product Weight (lbs/hr): \_\_\_\_\_

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

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission Rate per Rule 17-2	Allowable <sup>3</sup> Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Particulates	.97	3.4			6889	3.4	
SO <sub>2</sub>	.04	.14			284	.14	
CO	1.1	3.9			7812	3.9	
CH <sub>4</sub>	.19	.67			1349	.67	
NO <sub>2</sub>	14.9	52.9			105820	52.9	

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

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

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

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

EMISSION CALCULATION

Emission estimates from Table 1-4-1, "Emission Factors for Natural Gas Combustion," AP42

No. 2 Boiler (Keeler)

Basis - Fuel consumption 64,900 Ft<sup>3</sup>/Hr. Gas

Hours of operation 7102 Hrs./Yr.

Particulate Emissions

$$\frac{15 \text{ lbs.}}{1,000,000 \text{ Ft.}^3} \times 64,900 \text{ Ft.}^3/\text{Hr.} = .97 \text{ Lb./Hr.} \times 7102 \text{ Hr./Yr.} = 6889 \text{ Lb./Yr.}$$
$$\frac{6889}{2000} = 3.4 \text{ Tons/Yr.}$$

SO<sub>2</sub>

$$\frac{.6 \text{ lb.}}{1,000,000 \text{ Ft.}^3} \times 64,900 \text{ Ft.}^3/\text{Hr.} = .04 \text{ Lb./Hr.} \times 7102 \text{ Hr./Yr.} = 284 \text{ Lb./Yr.}$$
$$\frac{284}{2000} = 0.14 \text{ Tons/Yr.}$$

CO

$$\frac{17 \text{ lbs.}}{1,000,000 \text{ Ft.}^3} \times 64,900 \text{ Ft.}^3/\text{Hr.} = 1.1 \text{ Lb./Hr.} \times 7102 \text{ Hr./Yr.} = 7812 \text{ Lb./Yr.}$$
$$\frac{7812}{2000} = 3.9 \text{ Tons/Yr.}$$

CH<sub>4</sub>

$$\frac{3 \text{ lbs.}}{1,000,000 \text{ Ft.}^3} \times 64,900 \text{ Ft.}^3/\text{Hr.} = .19 \text{ Lb./Hr.} \times 7102 \text{ Hr./Yr.} = 1349 \text{ Lb./Yr.}$$
$$\frac{1349}{2000} = .67 \text{ Tons/Yr.}$$

No<sub>2</sub>

$$\frac{230 \text{ lb.}}{1,000,000 \text{ Ft.}^3} \times 64,900 \text{ Ft.}^3/\text{Hr.} = 14.9 \text{ Lb./Hr.} \times 7102 \text{ Hr./Yr.} = 105,820 \text{ Lb./Yr.}$$
$$\frac{105820}{2000} = 52.9 \text{ Tons/Yr.}$$

**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		
WET CITRUS PEEL	PARTICULATE		15200 lb/hr.	
LIME	PARTICULATE		680 lb/hr.	
		TOTAL 0.02		

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

1. Total Process Input Rate (lbs/hr): 152,000 lb/hr. wet citrus peel
2. Product Weight (lbs/hr): 32,000 lb/hr. (dried feed - 10% moist)

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

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission Rate per Rule 17-2	Allowable <sup>3</sup> Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Particulates	1.4	3.45			6919	3.45	
SO <sub>2</sub>	.05	.12			247	.12	
CO	1.5	3.7			7413	3.7	
CH <sub>4</sub>	.27	.67			1334	.67	
NO <sub>2</sub>	20.7	51			102299	51	

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

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

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

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

## EMISSION CALCULATION

Emission estimates from Table 1-4-1, "Emission Factors for Natural Gas Combustion," AP42

### Citrus Peel Dryer

Fuel consumption 90,000 Ft.<sup>3</sup>/Hr. Gas

Hours of operation 4942 Hrs./Yr.

### Particulate Emissions

$$\frac{15 \text{ lbs.}}{1,000,000 \text{ Ft.}^3} \times 90,000 \text{ Ft.}^3/\text{Hr.} = 1.4 \text{ Lb.}/\text{Hr.} \times 4942 \text{ Hr.}/\text{Yr.} = 6919 \text{ Lb.}/\text{Yr.}$$
$$\frac{6919}{2000} = 3.45 \text{ Tons}/\text{Yr.}$$

### SO<sub>2</sub>

$$\frac{.6 \text{ lb.}}{1,000,000 \text{ Ft.}^3} \times 90,000 \text{ Ft.}^3/\text{Hr.} = .05 \text{ Lb.}/\text{Hr.} \times 4942 \text{ Hr.}/\text{Yr.} = 247 \text{ Lb.}/\text{Yr.}$$
$$\frac{247}{2000} = 0.12 \text{ Tons}/\text{Yr.}$$

### CO

$$\frac{17 \text{ lbs.}}{1,000,000 \text{ Ft.}^3} \times 90,000 \text{ Ft.}^3/\text{Hr.} = 1.5 \text{ Lb.}/\text{Hr.} \times 4942 \text{ Hr.}/\text{Yr.} = 7413 \text{ Lb.}/\text{Yr.}$$
$$\frac{7413}{2000} = 3.7 \text{ Tons}/\text{Yr.}$$

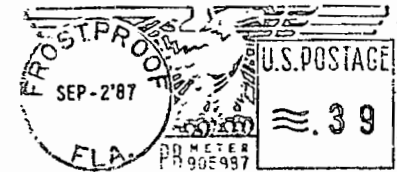
### CH<sub>4</sub>

$$\frac{3 \text{ lbs.}}{1,000,000 \text{ Ft.}^3} \times 90,000 \text{ Ft.}^3/\text{Hr.} = .27 \text{ Lb.}/\text{Hr.} \times 4942 \text{ Hr.}/\text{Yr.} = 1334 \text{ Lb.}/\text{Yr.}$$
$$\frac{1334}{2000} = .667 \text{ Tons}/\text{Yr.}$$

### No<sub>2</sub>

$$\frac{230 \text{ lb.}}{1,000,000 \text{ Ft.}^3} \times 90,000 \text{ Ft.}^3/\text{Hr.} = 20.7 \text{ Lb.}/\text{Hr.} \times 4942 \text{ Hr.}/\text{Yr.} = 102,299 \text{ Lb.}/\text{Yr.}$$
$$\frac{102299}{2000} = 51.1 \text{ Tons}/\text{Yr.}$$

K. J. BALLARD  
**The Citrus Hill Manufacturing Company**  
P.O. BOX 2000  
FROSTPROOF, FLORIDA 33843



Mr. Pradeep Raval  
Bureau of Air Quality Management  
Department of Environmental Regulation  
2600 Blair Stone Road  
Twin Tower Office Building  
Tallahassee, Florida 32301-8241



P 408 531 196

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Mr. Kenneth Ballard Citrus Hill Man. Co. P O Box 2000 Frostproof, FL 33843	
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	
<b>TOTAL Postage and Fees</b>	<b>\$</b>
Postmark or Date AC53-125831, x990, x508 <i>Mailed 6/25/87</i>	

PS Form 3800, Feb. 1982

PS Form 3811, July 1983 447-845

**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.
- Restricted Delivery.

3. Article Addressed to:  
Mr. Kenneth Ballard  
Citrus Hill Manuf. Co.  
P O Box 2000  
Frostproof, FL 33843

4. Type of Service:	Article Number
<input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	P 408 531 196

Always obtain signature of addressee or agent and **DATE DELIVERED.**

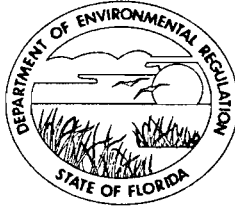
5. Signature - Addressee  
X
6. Signature - Agent  
X *R. Lapp*
7. Date of Delivery  
*6-29-87*
8. Addressee's Address (ONLY if requested and fee paid)

DOMESTIC RETURN RECEIPT



STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING  
2600 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ  
GOVERNOR  
DALE TWACHTMANN  
SECRETARY

June 25, 1987

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Kenneth Ballard  
The Citrus Hill Manufacturing Co.,  
P.O. Box 2000  
Frostproof, FL. 33843

Dear Mr. Ballard:

Re: Review of Permit Modification Application for:  
Boiler 1, Erie City, AC 53-125831  
Boiler 2, Keeler, AC 53-125990  
Citrus Peel Dryer, AC 53-125508

The Department has received your submittal dated May 11, 1987, containing revised operating hours and boiler operating parameters.

The revised data submitted by you was used by the Department to evaluate the potential ambient air quality impact near your facility. Screening modeling of the three applicable sources (Boilers No. 1 and 2, and the citrus peel dryer) has been performed. The result of this modeling indicates that these three sources, operating together at the proposed maximum emission rate, could exceed the 24-hour sulfur dioxide ambient air quality standard. In order to proceed, the Department must have reasonable assurance that ambient standards are not exceeded. The requested emission rates must be lowered to a level at which the Department has reasonable assurance that no exceedance will occur. Alternatively, you may submit refined modeling which shows compliance with the ambient standards. If you choose to submit refined modeling, please consult with the Department for an approved modeling protocol.

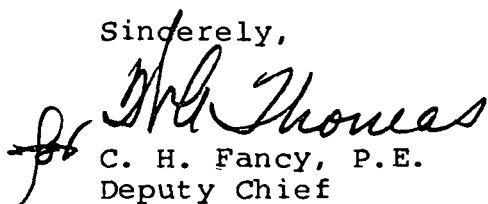
Mr. Kenneth Ballard

Page 2

June 25, 1987

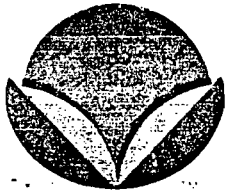
If you have any questions, please call Pradeep Raval (engineering) or Tom Rogers (modeling) at (904) 488-1344 or write to me at the above address.

Sincerely,

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

CF/TR/ss

cc: Jim McDonald



# The Citrus Hill Manufacturing Company

P.O. BOX 2000, FROSTPROOF, FLORIDA 33843

DER

MAY 26 1987

May 11, 1987

BAQM

C. H. Fancy, P.E.  
Deputy Chief  
Bureau of Air Quality Management  
Department of Environmental Regulation  
2600 Blair Stone Road  
Tallahassee, FL 32301-8241

Re: Permit Modifications AC53-125831, AC53-125990, AC53-125508

Dear C. H. Fancy:

In reply to your letter requesting additional information on the above referenced permit applications, I am sending the following:

1. It has been impossible to locate the original construction permits for either of these boilers at this time.
2. Heat Input Information for the above mentioned sources-Attachment I.
3. There has not been No. 6 fuel oil consumed in any one of these sources for the past 6-7 years. A copy of construction/modification permit #A053-2519 dated 6-13-75 furnished by FDER, indicated an approximate sulfur content of 1.7%.
4. This emission factor of NOx was verified by P.E.
5. A. Our process is a citrus canning plant designed for processing raw citrus into consumer goods.  
B. Boilers No. 1 and No. 2 are used to generate steam as a heat source for citrus processing.  
C. The citrus peel dryer is used for removing excess moisture from spent citrus peel while manufacturing animal feed.
6. The annual operation time for the peel dryer would be very much the same as for boiler No. 1. The performance data estimates are in Attachment II.
7. See the process flow chart for peel dryer, attachment III.

Another point that needs to be corrected is that while searching for the information you had requested, it was discovered the actual boiler numbers do not correspond with the proper permit numbers:

A053-52886 500 HP Erie City Boiler Model #97819 should read Boiler No. 1  
A053-81687 Keeler Company Boiler Model DS-50 should read Boiler No. 2

Evidently this error occurred at time of renewal of the initial operating permits in 1974.

C. H. Fancy

1/27/87

Page 2

If you have any questions, please call me at (813) 635-2211.

Sincerely,



Kenneth J. Ballard  
Environmental Manager

KJB/rs  
0175R

Attachments

ATTACHMENT I - HEAT INPUT ESTIMATES

		<u>Designed</u>	<u>Previous Permit</u>	<u>Actual</u>
AC53-125831	Erie City No. 1			
	Nat. Gas .065MM CF/HR	66.27MM BTU/HR	*18.5MM BTU/HR	54.58MM BTU/HR
	No.6 Fuel 419.1 GPH	63.27MM BTU/HR	N/A	50.61MM BTU/HR
AC53-125990	Keeler Boiler No. 2			
	Nat. Gas .059MM CF/HR	64.9MM BTU/HR	*18.5MM BTU/HR	51.92MM BTU/HR
	No. 6 Fuel 405.5 GPH	61.21MM BTU/HR	*17.8MM BTU/HR	48.97MM BTU/HR
AC53-125508	Citrus Peel Dryer			
	Nat. Gas .090MM CF/HR	90.0MM BTU/HR	63.0MM BTU/HR	72.0MM BTU/HR
	No. 6 Fuel 580 GPH	87.6MM BTU/HR	N/A	70.08MM BTU/HR

\*Data from previous permit-uncertain how arrived at.

**Keeler  
DORR-OLIVER**

P.O. BOX 548 WILLIAMSPORT, PA. 17703 0548 (717) 326-3361

November 17, 1986

DER

MAY 26 1987

BAQM

Ben Hill Griffin Citrus Company  
P.O. Box 2000  
Frostproof, FL 33843

Attention: Mr. Ken Ballard


Gentlemen:

Predicted performance for your existing boiler based on generating 50,000 pounds of steam per hour at 150 PSIG is:

	<u>Natural Gas</u>	<u>#6 Oil</u>
BTU Fired (Million BTU/Hr)	64.90	61.21
Flue Gas (#/Hr)	55,100	54,480
Exit Gas Temp. (°F)	535	535
Efficiency (%)	78.27	83.0

Very truly yours,

KEELER/DORR-OLIVER  
BOILER COMPANY



Walter J. McHugh  
Proposal Engineer

WJM1/cap

cc: M. L. Ball Company  
P.O. Box 968  
Norcross, GA 30091  
Attention: Mr. Jim Rice

P E R F O R M A N C E

PREDICTED PERFORMANCE DATA FIRING GAS

STEAM OUTPUT.....	LBS/HR	51000.	38250.	25500.
PRESSURE AT BOILER OUTLET.....	PSIG	150.	150.	150.
WATER TEMPEATURE ENTERING BOILER.....	DEG. F	212.	212.	212.
BLOW-DOWN WATER.....	LBS/HR	0.	0.	0.
STEAM TEMPERATURE AT BOILER OUTLET.....	DEG. F	366.	366.	366.
EXCESS AIR IN GAS LEAVING BOILER.....	PERCENT	10.00	10.00	10.00
GAS TEMPERATURE LEAVING BOILER.....	DEG. F	540.	487.	434.
AMBIENT AIR TEMPERATURE.....	DEG. F	80.	80.	80.
<b>DRAFT LOSSES THROUGH ...</b>				
AIR DUCTS.....	INCHES H2O	.31	.17	.07
BURNER.....	INCHES H2O	4.44	2.45	1.07
BOILER.....	INCHES H2O	4.62	2.51	1.08
GAS DUCTS.....	INCHES H2O	.31	.17	.07
TOTAL DRAFT LOSS.....	INCHES H2O	9.68	5.30	2.29
FLUE GAS LEAVING BOILER.....	LBS/HR	56438.	41820.	27611.
AIR REQUIRED FOR COMBUSTION.....	LBS/HR	53401.	39570.	26126.
VOLUMETRIC HEAT RELEASE (HHV).....	BTU/CU FT/HR	86079.	63784.	42113.
RADIANT HEAT RELEASE (LHV).....	BTU/SQ FT/HR	119852.	88695.	58413.
FURNACE ABSORPTION RATE.....	BTU/SQ FT/HR	38313.	32633.	25818.
<b>HEAT LOSSES ...</b>				
DRY GAS.....	PERCENT	8.26	7.31	6.35
HYDROGEN AND MOISTURE IN FUEL.....	PERCENT	11.71	11.47	11.23
MOISTURE IN AIR.....	PERCENT	.23	.20	.18
UNBURNED COMBUSTIBLE.....	PERCENT	.00	.00	.00
RADIATION.....	PERCENT	.67	.90	1.35
MANUFACTURER'S MARGIN.....	PERCENT	1.00	1.00	1.00
TOTAL HEAT LOSS.....	PERCENT	21.87	20.88	20.11
PREDICTED EFFICIENCY.....	PERCENT	78.13	79.12	79.89
FUEL BURNED.....	LBS/HR	3037.	2250.	1486.
FUEL BURNED.....	CU FT/HR	66149.	49016.	32362.

DER

MAY 26 1987

BAQM

GENERAL

IT IS RECOGNIZED THAT THE PERFORMANCE OF THE EQUIPMENT COVERED IN THIS PROPOSAL CANNOT BE EXACTLY PREDICTED FOR EVERY POSSIBLE OPERATING CONDITION. IN CONSEQUENCE, ANY PREDICTED PERFORMANCE DATA SUBMITTED ARE INTENDED TO SHOW PROBABLE OPERATING RESULTS WHICH MAY BE CLOSELY APPROXIMATED BUT WHICH CANNOT BE GUARANTEED EXCEPT AS EXPRESSLY STATED IN THE GUARANTEE CLAUSE OR CLAUSES IN THIS PROPOSAL.

ANY PERFORMANCE CURVES SUBMITTED ARE FOR THE PURCHASER'S CONVENIENCE AND THE PERFORMANCE INDICATED THEREON IS NOT OFFERED BY THE COMPANY, NOR TO BE CONSTRUED BY THE PURCHASER, AS A PROPOSAL OF CONTRACT OBLIGATION.

P E R F O R M A N C E

PREDICTED PERFORMANCE DATA

FIRING OIL

STEAM OUTPUT.....	LBS/HR	51000.	38250.	25500.
PRESSURE AT BOILER OUTLET.....	PSIG	150.	150.	150.
WATER TEMPERATURE ENTERING BOILER .....	DEG. F	212.	212.	212.
BLOW-DOWN WATER.....	LBS/HR	0.	0.	0.
STEAM TEMPERATURE AT BOILER OUTLET.....	DEG. F	366.	366.	366.
EXCESS AIR IN GAS LEAVING BOILER .....	PERCENT	15.00	15.00	15.00
GAS TEMPERATURE LEAVING BOILER .....	DEG. F	558.	499.	440.
AMBIENT AIR TEMPERATURE .....	DEG. F	80.	80.	80.
<b>DRAFT LOSSES THROUGH ...</b>				
AIR DUCTS.....	INCHES H2O	.31	.17	.07
BURNER.....	INCHES H2O	4.61	2.53	1.11
BOILER .....	INCHES H2O	4.81	2.60	1.11
GAS DUCTS.....	INCHES H2O	.31	.17	.07
TOTAL DRAFT LOSS.....	INCHES H2O	10.04	5.47	2.36
FLUE GAS LEAVING BOILER.....	LBS/HR	57676.	42653.	28121.
AIR REQUIRED FOR COMBUSTION.....	LBS/HR	54421.	40246.	26534.
VOLUMETRIC HEAT RELEASE (HHV) .....	BTU/CU FT/HR	82857.	61275.	40399.
RADIANT HEAT RELEASE (LHV) .....	BTU/SQ FT/HR	120111.	88716.	58349.
FURNACE ABSORPTION RATE.....	BTU/SQ FT/HR	44081.	37839.	29816.
<b>HEAT LOSSES ...</b>				
DRY GAS.....	PERCENT	9.58	8.40	7.21
HYDROGEN AND MOISTURE IN FUEL.....	PERCENT	7.29	7.13	6.97
MOISTURE IN AIR.....	PERCENT	.25	.22	.19
UNBURNED COMBUSTIBLE.....	PERCENT	.00	.00	.00
RADIATION.....	PERCENT	.67	.90	1.35
MANUFACTURER'S MARGIN.....	PERCENT	1.00	1.00	1.00
TOTAL HEAT LOSS.....	PERCENT	18.79	17.65	16.72
PREDICTED EFFICIENCY.....	PERCENT	81.21	82.35	83.28
FUEL BURNED.....	LBS/HR	3255.	2407.	1587.
FUEL BURNED.....(7.200LBS/GAL).....	GALS/HR	452.	334.	220.

DER

MAY 26 1987

BAQM

GENERAL

IT IS RECOGNIZED THAT THE PERFORMANCE OF THE EQUIPMENT COVERED IN THIS PROPOSAL CANNOT BE EXACTLY PREDICTED FOR EVERY POSSIBLE OPERATING CONDITION. IN CONSEQUENCE, ANY PREDICTED PERFORMANCE DATA SUBMITTED ARE INTENDED TO SHOW PROBABLE OPERATING RESULTS WHICH MAY BE CLOSELY APPROXIMATED BUT WHICH CANNOT BE GUARANTEED EXCEPT AS EXPRESSLY STATED IN THE GUARANTEE CLAUSE OR CLAUSES IN THIS PROPOSAL.

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**ZURN**

a step ahead of tomorrow

March 3, 1987

Citrus Hill Inc.  
P.O. Box 2000  
Frostproof, FL 33843

Attention: Mr. Ballard

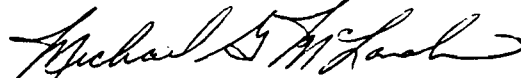
Dear Mr. Ballard:

The expected heat inputs for the Keystone Steam Generating Unit, serial number 97819, are 63,270,100 Btu/hr when firing #6 oil, and 66,272,600 Btu/hr when firing natural gas. These values correspond to operating conditions of 51,000 lb/hr, 150 PSIG saturated steam. These inputs are assuming that the unit has received proper care and maintenance over the years.

If additional information concerning this unit is required, please feel free to notify us.

Sincerely yours,

ENERGY DIVISION  
ZURN INDUSTRIES, INC.



Michael G. McLanahan  
Asst. Design Engineer

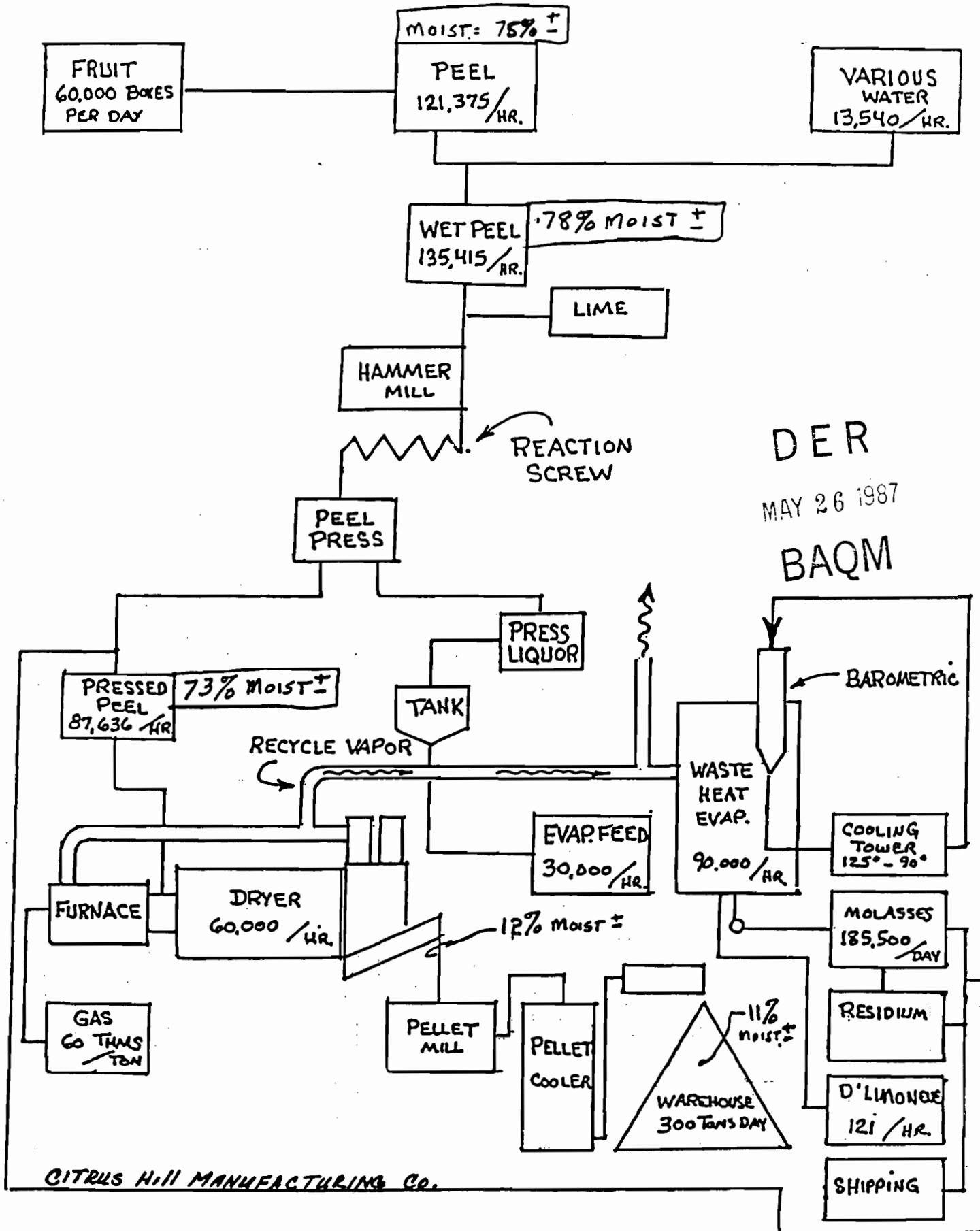
cc: M. R. Swabb

DER

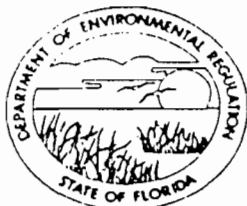
MAY 26 1987

BAQM

# BY PRODUCTS FLOW CHART



DEPARTMENT OF ENVIRONMENTAL REGULATION



SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH  
TAMPA, FLORIDA 33610

BOB GRAHAM  
GOVERNOR

VICTORIA J. TSCHINKEL  
SECRETARY

WILLIAM K. HENNESSEY  
DISTRICT MANAGER

DER

MAY 26 1987

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCE

SOURCE TYPE: Boiler [ ] New<sup>1</sup> [X] Existing<sup>1</sup>

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

COMPANY NAME: THE CITRUS HILL MANUFACTURING COMPANY COUNTY: Polk

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

SOURCE LOCATION: Street 5th & Alt. 27 City Frostproof

UTM: East 448000M North 3068500M

Latitude 27° 44' 22" N Longitude 81° 31' 58" W

APPLICANT NAME AND TITLE: W.K Miller, Plant Manager

APPLICANT ADDRESS: P.O. Box 2000

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative\* of THE CITRUS HILL MANUFACTURING

I certify that the statements made in this application for a Modification of a 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: [Signature]

W.K Miller, Plant Manager

Name and Title (Please Type)

Date: 3/17/87 Telephone No. 813-635-2211

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

<sup>1</sup> See Florida Administrative Code Rule 17-2.100(57) and (104)

Best Available Copy

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 Robert O Covington

Robert O. Covington  
Name (Please Type)

Robert O. Covington & Associates  
Company Name (Please Type)

Rt. 3 Box 248 Bartow, FL 33830-9504  
Mailing Address (Please Type)

3/17/87

Florida Registration No. 016041 Date: 3/17/87 Telephone No. 813-533-6282

SECTION II: GENERAL PROJECT INFORMATION

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

This application will modify operating permit no. A053-81687 to allow burning of No. 6 Fuel Oil in Boiler No.2, in addition to the presently permitted Natural Gas. The source will comply with all applicable State of Florida Regulations. Further hours of operation increase.

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

Start of Construction Not applicable Completion of Construction \_\_\_\_\_

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

Not applicable

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

A053-49387 - issued 2/25/82, expired 1/10/84. A053-81687 - issued 4/16/84 will expire 3/28/87

E. Requested permitted equipment operating time: hrs/day 24; days/wk 6.7; wks/yr 27; 5.0      23  
if power plant, hrs/yr \_\_\_\_\_; if seasonal, describe: 7102 hours per year.

Approximately December through June, 6.7 days per week

Approximately July through November, 5.0 days per week

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

1. Is this source in a non-attainment area for a particular pollutant? \_\_\_\_\_

a. If yes, has "offset" been applied? \_\_\_\_\_

b. If yes, has "Lowest Achievable Emission Rate" been applied? \_\_\_\_\_

c. If yes, list non-attainment pollutants. \_\_\_\_\_

2. Does best available control technology (BACT) apply to this source?  
If yes, see Section VI. \_\_\_\_\_

3. Does the State "Prevention of Significant Deterioration" (PSD)  
requirement apply to this source? If yes, see Sections VI and VII. \_\_\_\_\_

4. Do "Standards of Performance for New Stationary Sources" (NSPS)  
apply to this source? \_\_\_\_\_

5. Do "National Emission Standards for Hazardous Air Pollutants"  
(NESHAP) apply to this source? \_\_\_\_\_

H. Do "Reasonably Available Control Technology" (RACT) requirements apply  
to this source? \_\_\_\_\_ No

a. If yes, for what pollutants? \_\_\_\_\_

b. If yes, in addition to the information required in this form,  
any information requested in Rule 17-2.650 must be submitted.

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

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		

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

1. Total Process Input Rate (lbs/hr): \_\_\_\_\_
2. Product Weight (lbs/hr): \_\_\_\_\_

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

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission Rate per Rule 17-2	Allowable Emission lbs/hr	Potential Emission <sup>4</sup>		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Particulates	9.33	33.12			66237	33.12	
SO <sub>2</sub>	108.23	384.30			768635	384.30	
NO <sub>2</sub>	32.44	115.19			230389	115.19	
CO	1.62	5.76			11519	5.76	
CH <sub>4</sub>	1.22	4.32			8640	4.32	

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

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

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

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

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

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

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
No.6 Fuel Oil	405.5 Gal/hr	405.5 Gal/hr	61.21 mm BTU/hr
Natural Gas	0.059mm CF/hr	0.059mm CF/hr	64.90 mm BTU/hr

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

Fuel Analysis:

Percent Sulfur: 1.70 Percent Ash: 0.03  
 Density: 7.2 lbs/gal Typical Percent Nitrogen: Not available  
 Heat Capacity: 20965 BTU/lb 150949 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 Not applicable Maximum                     

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

No liquid or solid wastes generated.

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

Stack Height: 62 ft. Stack Diameter: 3.5 ft.  
 Gas Flow Rate: 18,365 ACFM          DSCFM Gas Exit Temperature: 365 °F  
 Water Vapor Content:          % Velocity: 31.8 FPS

SECTION IV: INCINERATOR INFORMATION

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

Description of Waste         

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

Approximate Number of Hours of Operation per day          day/wk          wks/yr.         

Manufacturer         

Date Constructed          Model No.         

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

Stack Height:          ft. Stack Diameter:          Stack Temp.         

Gas Flow Rate:          ACFM          DSCFM\* Velocity:          FPS

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

Type of pollution control device:  Cyclone  Wet Scrubber  Afterburner

Other (specify)



## Emission Calculations

### Particulate

$$\frac{23 \text{ LB}}{1000 \text{ GL}} \times \frac{405.5 \text{ GAL}}{\text{HR}} = 9.33 \text{ LB/HR} \times 7102 \text{ HR/YR} = 66237 \text{ LB/YR}$$

$$\frac{66237 \text{ LB/YR}}{2000 \text{ Lb.TON}} = 33.12$$

### SO<sub>2</sub>

$$\frac{(157)(1.70) \text{ LB}}{1000 \text{ GAL}} \times \frac{405.5 \text{ GAL}}{\text{HR}} = 108.23 \text{ LB/HR} \times 7102 = 768635$$

$$\frac{768635 \text{ LB/ YR}}{2000 \text{ LB/TON}} = 384.3 \text{ TON /YR}$$

### Nitrogen Oxides

$$\frac{80 \text{ LBS}}{1000 \text{ GAL}} \times \frac{405.5 \text{ GAL}}{\text{HR}} = 32.44 \text{ LB/HR} \times 7102 \text{ HR.YR} = 230389 \text{ LB/YR}$$

$$\frac{230389 \text{ LB/YR}}{2000 \text{ LB/TON}} = 115.19 \text{ TON/YR}$$

### Carbon Monoxide

$$\frac{4 \text{ LB}}{1000 \text{ GAL}} \times \frac{405.5 \text{ GAL}}{\text{HR}} = 1.62 \text{ LB/HR} \times 7102 \text{ HR/YR} = 11519 \text{ LB/YR}$$

$$\frac{11519 \text{ LB/YR}}{2000 \text{ LB/TON}} = 5.76 \text{ TON/YR}$$

### Hydrocarbons

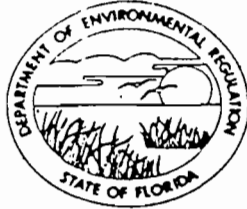
$$\frac{3 \text{ LB}}{1000 \text{ GAL}} \times \frac{405.5 \text{ GAL}}{\text{HR}} = 1.22 \text{ LB/HR} \times 7102 \text{ HR/HR} \times 8640 \text{ LB/YR}$$

$$\frac{8640 \text{ LB/YR}}{2000 \text{ LB/TON}} = 4.32 \text{ TON/YR}$$

Calculations based on :  
405.5 GAL/HR No.6 Fuel Oil  
7102 HR/YR Operation

Emission factors from AP-42, Table 1.3-1.

DEPARTMENT OF ENVIRONMENTAL REGULATION



SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH  
TAMPA, FLORIDA 33610

DER

MAY 20 1987

BAQM

BOB GRAHAM  
GOVERNOR

VICTORIA J. TSCHINKEL  
SECRETARY

WILLIAM K. HENNESSEY  
DISTRICT MANAGER

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Boiler [ ] New<sup>1</sup> [x] Existing<sup>1</sup>

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

COMPANY NAME: THE CITRUS HILL MANUFACTURING COMPANY COUNTY: Polk

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Boiler # 1

SOURCE LOCATION: Street 5th Street and Alt 27 City Frostproof

UTM: East 448000 M North 3068500 M

Latitude 27 ° 44 ' 22 "N Longitude 81 ° 31 ' 58 "W

APPLICANT NAME AND TITLE: W.K. Miller, Plant Manager

APPLICANT ADDRESS: P.O. Box 2000, Frostproof

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative\* of THE CITRUS HILL MANUFACTURING COMPANY

I certify that the statements made in this application for a Modification of a 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: [Signature]

W.K. Miller, Plant Manager  
Name and Title (Please Type)

Date: 3/17/87 Telephone No. 813-635-2211

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

<sup>1</sup> See Florida Administrative Code Rule 17-2.100(57) and (104)

Best Available Copy

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 Robert O. Covington

Robert O. Covington P.E.

Name (Please Type)

R.O. Covington & Associates

Company Name (Please Type)

Rt 3, Box 248, Bartow, FL 33830-9504

Mailing Address (Please Type)

Florida Registration No. 016041

Date: 3/17/87

Telephone No. 813-533-6282

SECTION II: GENERAL PROJECT INFORMATION

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

This application will modify operating permit no. A053-52886 to allow burning No.6 Fuel Oil in Boiler No.1, in addition to the presently permitted Natural Gas. The source will comply with all applicable State of Florida Regulations. Futher, increase hours of operation.

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

Start of Construction not applicable Completion of Construction \_\_\_\_\_

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

Not applicable

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

A053-49386 Issued 1/25/82, expired 6/13/82; A053-52886 issued 4/1/82, will expire 3/29/87

E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 5 ; wks/yr 5 ;  
if power plant, hrs/yr \_\_\_\_\_ ; if seasonal, describe: 4942 hours per year.

6.7 27

Approximately November through June of each year.

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

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

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

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

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

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

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

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

1. Total Process Input Rate (lbs/hr): Not applicable

2. Product Weight (lbs/hr): Not applicable

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

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission Rate per Rule 17-2	Allowable <sup>3</sup> Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Particulates	9.64	23.8			47637	23.8	
SO <sub>2</sub>	111.85	276.4			552801	276.4	
NO <sub>2</sub>	33.53	82.85			165695	82.85	
CO	1.68	4.14			8285	4.14	
CH <sub>4</sub>	1.26	3.11			6214	3.11	

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

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

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

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

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

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

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
No.6 Fuel Oil	419.1 Gal/hr	419.1 Gal/hr	63.27 mm BTU/hr
Natural Gas	0.065 mm CF/hr	0.065 mmCF/hr	68.23 mmBTU/hr

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

Fuel Analysis:

Percent Sulfur: 1.70 Percent Ash: 0.03  
 Density: 7.2 lbs/gal Typical Percent Nitrogen: Not available  
 Heat Capacity: 20,965 BTU/lb 150949 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 Average Maximum                     

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

No liquid or solid wastes generated.

Emission Calculations

Particualtes

$$\frac{23 \text{ LBS}}{1000 \text{ GAL}} \times \frac{419.1}{\text{HR}} = 9.64 \text{ LB/HR} \times 4942 \text{ HR/YR} = 47637 \text{ LBS/YR}$$

$$\frac{47637 \text{ LB/YR}}{2000 \text{ LB/TON}} = 23.81 \text{ TON/YR}$$

SO<sub>2</sub>

$$\frac{(157)(1.70)}{1000\text{Gal}} \times \frac{419.1\text{Gal}}{\text{HR}} = 111.85 \text{ LB/HR} \times 4942 \text{ HR/YR} = 552801$$

$$\frac{552801 \text{ LB/TR}}{2000 \text{ LB/TON}} = 276.40$$

Nitrogen Oxides

$$\frac{80 \text{ LBS}}{1000 \text{ GAL}} \times \frac{419.1 \text{ GAL}}{\text{HR}} = 33.53 \text{ LB/HR} \times 4942 \text{ HR/YR} = 165695 \text{ LB/YR}$$

$$\frac{165695 \text{ LB/YR}}{2000 \text{ LB/TON}} = 82.85 \text{ TON/YR}$$

Carbon Monoxide

$$\frac{4 \text{ LB}}{1000\text{GAL}} \times \frac{491.1 \text{ GAL}}{\text{HR}} = 1.68 \text{ LB/HR} \times 4942 \text{ HR/YR} = 8285$$

$$\frac{8285 \text{ LB/YR}}{2000 \text{ LB/TON}} = 4.14 \text{ TON/YR}$$

Hydrocarbons

$$\frac{3 \text{ LB}}{1000 \text{ GAL}} \times \frac{419.1 \text{ GAL}}{\text{HR}} = 1.26 \text{ LB/HR} \times 4942 \text{ HR/YR} = 6214 \text{ LB/YR}$$

$$\frac{6214 \text{ LB/YR}}{2000 \text{ LB/TON}} = 3.11 \text{ TON/YR}$$

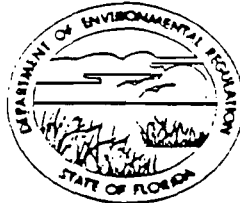
Calculations based on:  
419.1 GAL/HR No.6 Fuel Oil  
4942 HR/YR Operation

Emission factors from AP-42, Table 1.3-1

Best Available Copy

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



MAY 26 1987

BAQM

BOB GRAHAM  
GOVERNOR  
VICTORIA J. TSCHINKEL  
SECRETARY

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Citrus Peel Dryer [ ] New<sup>1</sup> [X] Existing<sup>1</sup>  
APPLICATION TYPE: [X] Construction [ ] Operation [X] Modification  
COMPANY NAME: THE CITRUS HILL MANUFACTURING COMPANY COUNTY: Polk  
Identify the specific emission point source(s) addressed in this application (i.e. Line  
Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Citrus Peel Dryer W/WHE  
SOURCE LOCATION: Street 5th St. & Alt 27 City Frostproof  
UTM: East 448000 M North 3068500 M  
Latitude 27 ° 44 ' 22 "N Longitude 81 ° 31 ' 58 "W  
APPLICANT NAME AND TITLE: W.K. Miller, Plant Manager  
APPLICANT ADDRESS: P.O. Box 2000

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative\* of THE CITRUS HILL MANUFACTURING C

I certify that the statements made in this application for a modification of a  
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: [Signature]  
W.K. Miller, Plant Manager  
Name and Title (Please Type)

Date: 3/17/87 Telephone No. 813-635-2211

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

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



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

Signed Robert O. Covington

Robert O. Covington  
Name (Please Type)

R.O. Covington and Assoc  
Company Name (Please Type)

Route 3, Box 248. Bartow. Fl 33830-9504  
Mailing Address (Please Type)

Florida Registration No. 016041 Date: 3/17/87 Telephone No. 813-533-6282

**SECTION II: GENERAL PROJECT INFORMATION**

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

This application will modify operating permit no. A053-52885 to allow burning of No.6 fuel oil in the Citrus Peel Dryer with Waste Heat Evaporator, in addition to the presently permitted Natural Gas. The source will be in compliance with all applicabe State of Florida Regulations. Futher hours of operation increase.

B. Schedule of project covered in this application (Construction Permit Application Only)  
Start of Construction Not applicable Completion of Construction \_\_\_\_\_

C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)  
Not applicable

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.  
A053-49384 - issued 1/25/82, expired February 1982; A053-52855 issued 2/27/87 will expire 3/29/87

E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 6.7 ; wks/yr 27 ;  
 if power plant, hrs/yr \_\_\_\_\_ ; if seasonal, describe: 4942 hours per year.  
Approximately November through June of each year.

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

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

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

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

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		
Wet Citrus Peel	Particulate		15200 lb/hr	
Lime	Particulate		680 lb/hr	
		Total 0.02		

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

1. Total Process Input Rate (lbs/hr): 152,000 lb/hr Wet Citrus Peel

2. Product Weight (lbs/hr): 32,000 lb/hr (dried feed - 10% moist)

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

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission Rate per Rule 17-2	Allowable <sup>3</sup> Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Particulate	13.34	32.93			65926	32.93	
SO <sub>2</sub>	154.80	382.5			765031	382.5	
NO <sub>2</sub>	46.40	114.65			229309	114.65	
CO	2.32	5.73			11465	5.73	
CH <sub>4</sub>	1.74	4.30			8599	4.30	

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

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

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

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

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

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

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
No. 6 Fuel Oil	480 Gal/hr	580 Gal/hr	87.6 mm BTU/hr
Natural Gas	0.072 mm CF/hr	0.090mm CF/hr	90.0mm BTU/hr

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

Fuel Analysis:

Percent Sulfur: 1.70 Percent Ash: 0/003

Density: 7.2 lbs/gal Typical Percent Nitrogen: Not available

Heat Capacity: 10965 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 None Maximum  

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

No solid or liquid wastes generated



## Emission Calculations

### Particulate

$$\frac{23 \text{ LB}}{1000 \text{ GAL}} \times \frac{580 \text{ GAL}}{\text{HR}} = 13.34 \text{ LB/HR} \times 4942 \text{ HR/YR} = 65926 \text{ LB/YR}$$

$$\frac{65926 \text{ LB/YR}}{2000 \text{ LB/TON}} = 32.93 \text{ TON/YR}$$

### SO<sub>2</sub>

$$\frac{(157)(1.70) \text{ LB/YR}}{1000 \text{ GAL}} \times \frac{580 \text{ GAL}}{\text{HR}} = 154.80 \text{ LB/HR} \times 4942 \text{ HR/YR} = 765031$$

$$\frac{765031 \text{ LB/YR}}{2000 \text{ LB/TON}} = 382.5 \text{ TON/YR}$$

### Nitrogen Oxides

$$\frac{80 \text{ LB}}{1000 \text{ GAL}} \times \frac{580 \text{ GAL}}{\text{HR}} = 46.40 \text{ LB/HR} \times 4942 \text{ HR/YR} = 229309 \text{ LB/YR}$$

$$\frac{229309 \text{ LB/YR}}{2000 \text{ LB/TON}} = 114.65 \text{ TON/YR}$$

### Carbon Monoxide

$$\frac{4 \text{ LBS}}{1000 \text{ GAL}} \times \frac{580 \text{ GAL}}{\text{HR}} = 2.32 \text{ LB/HR} \times 4942 \text{ HR/YR} = 11465$$

$$\frac{11465 \text{ LB/YR}}{2000 \text{ LB/Ton}} = 5.73 \text{ TON/YR}$$

### Hydrocarbons

$$\frac{3 \text{ LB}}{1000 \text{ GAL}} \times \frac{580 \text{ GAL}}{\text{HR}} = 1.74 \text{ LB/HR} \times 4942 \text{ HR/YR} = 8599 \text{ LB/YR}$$

$$\frac{8599 \text{ LB/YR}}{2000 \text{ LB/TON}} = 4.30 \text{ TON/YR}$$

Calculations based on:

580 GAL/HR No.6 Fuel Oil  
4942 HR/YR Operation

Emission factors from AP-42, Table 1.3-1



# The Citrus Hill Manufacturing Company

P.O. BOX 2000, FROSTPROOF, FLORIDA 33843

DER

MAR 9 1987

BAQM

March 5, 1987

Mr. Pradeep Raval  
Bureau of Air Quality Management  
Department of Environmental Regulation  
2600 Blair Stone Road  
Twin Tower Office Building  
Tallahassee, Florida 32301-8241

Dear Pradeep:

Enclosed please find a copy of the letter that was sent out regarding the recent name change of our company. I am sorry for the delay in getting this to you, but I trust this will be of help in correcting the papers associated with our permit applications.

Also, I would like to express our appreciation for the time you and Barry Andrews spent with Don Wise and myself. The conversation we had has been most helpful in understanding the FDER viewpoint on air permitting and other issues concerning our permits.

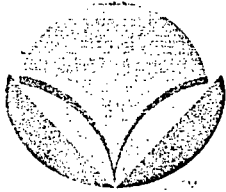
You should be receiving copies of the revisions to our construction permit applications shortly. We are making every effort to include all the necessary information you requested be present with these revisions. If you have any questions, please contact me at (813) 635-2211.

Sincerely,

Kenneth J. Ballard  
Environmental Manager

KJB:bjk  
0184R  
Enclosure

cc: D. W. Wise



# The Citrus Hill Manufacturing Company

P.O. BOX 2000, FROSTPROOF, FLORIDA 33843

November 14, 1986

Mr. Sam Sahebzamani  
Department of Environmental  
Regulation  
7601 Highway 301 North  
Tampa, FL 33610

Dear Sam:

## WE ARE CHANGING OUR NAME

This announces that we are changing our corporate name to The Citrus Hill Manufacturing Company. There will be no change to parent company affiliation, as The Citrus Hill Manufacturing Company will remain a wholly owned subsidiary of The Procter & Gamble Company.

When P&G purchased the processing facilities of Ben Hill Griffin, Inc., it was granted the right to use Mr. Griffin's name in its' citrus company title. The goodwill and industry relations impact of the name were of obvious advantage in the early years of operation of the company. However, it has been confusing having two large companies involved in very different aspects of citrus business, both headquartered in Frostproof and both having very similar corporate names. In addition, since "Citrus Hill" is now a nationally identified brand name, we now feel it is appropriate to align our company name with that of its flagship brand.

Therefore, on January 1, 1987, the official corporate name will be changed to The Citrus Hill Manufacturing Company. There will be no change to our location, our mailing addresses, or to our telephone numbers. We are trying to contact everyone we have been dealing with about this change in our name requesting that they make the appropriate adjustment in all their future correspondence. Would you kindly proceed with reissuing the following permits for the Frostproof and Bartow Plants in the new name.

### FROSTPROOF PLANT

Permit #1053-92131	Industrial Waste Permit
Permit #A053-52886	Boiler #1 - Erie City
Permit #A053-81687	Boiler #2 - Keeler
Permit #A053-118750	Boiler #3 - Cleaver Brooks
Permit #A053-108069	Pellet Cooler/Cyclone
Permit #A053-52885	Peel Dryer/Waste Heat Evaporator

### BARTOW

Permit #1053-102787	Industrial Waste Permit
---------------------	-------------------------



Mr. Sam Sahebzamani  
11/14/86  
Page 2

Should you feel someone other than yourself in your organization should have this information, please pass it on to them.

Thank you for your attention to this matter and thank you for your continued support in our company's growth as a leader in the Citrus Industry.

Sincerely,

Donald W. Wise, Jr.  
Plant Engineer

DWWJR/rs  
0157R

BEST AVAILABLE COPY

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

VIN TOWERS OFFICE BUILDING  
100 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM  
GOVERNOR

VICTORIA J. TSCHINKEL  
SECRETARY

November 7, 1986

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Kenneth Ballard  
Ben Hill Griffin Citrus Co.  
Post Office 2000  
Frostproof, Florida 33843

Dear Mr. Ballard:

Re: Review of Permit Modification Applications for:  
Boiler 1, Keeler, AC 53-125990  
Boiler 2, Erie City, AC 53-125831  
Citrus Peel Dryer, AC 53-125508

The department has received and reviewed your above referenced application package dated October 6, 1986. The following information will be required to further process your application including all assumptions, calculations and reference materials:

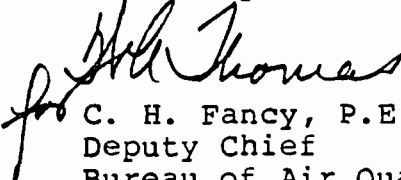
1. Please submit, if available, the most recently issued construction permits for the three above mentioned sources.
2. What is the designed, permitted and actual heat input capacity, with reference to both natural gas and No. 6 fuel oil for the three above mentioned sources? Please submit the respective reference material (e.g., manufacturer's specs.).
3. What sulfur content in the No. 6 fuel oil has most recently been allowed by way of construction permit conditions, for use in the three above referenced sources?
4. Please verify the emission factor for NOx from Table 1.3-1, in AP-42, and revise the calculations in the application, if necessary.
5. Please give a brief description of your overall process and the specific functions of the three above referenced sources therein.

Mr. Kenneth Ballard  
Page Two  
November 7, 1986

6. Should the annual operating time for the peel dryer be 3432 hours as it is for boilers No. 1 and No. 2? Please revise the peel dryer emission estimates if necessary.
7. On the process flow chart provided by you, please quantify the material flow rates and also indicate percent moisture in the streams to and from the dryer. Please also specify the quantity of water evaporated by the peel dryer, and in the waste heat evaporator.

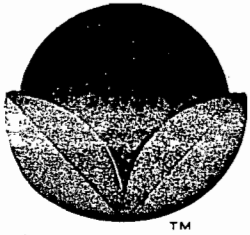
If you have any questions please call Pradeep Raval at (904)488-1344 or write to me at the above address.

Sincerely,

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

CHF/PR/s

cc: Jim McDonald



# Ben Hill Griffin Citrus Co.

P.O. BOX 2000, FROSTPROOF, FLORIDA 33843

DER

October 6, 1986

OCT 16 1986

BAQM

Mr. W. C. Thomas  
District Air Engineer  
Department of Environmental Regulation  
7601 Highway 301 North  
Tampa, Florida 33610-9544

001 2 114  
SOUTH WEST  
TAMPA

Dear Mr. Thomas:

Enclosed please find three (3) applications for construction modifications in quadruple for existing permits A053-52886, A053-81687, and A053-52855 for the Ben Hill Griffin Citrus Co.

Also enclosed is a check in the amount of \$3,000 to cover the application fees. Due to the fast approaching citrus processing season, we ask that you review these applications as expeditiously as possible.

If any additional information is needed in this matter, please contact Ken Ballard at (813) 635-2211.

Sincerely,

W. K. Miller  
Plant Manager

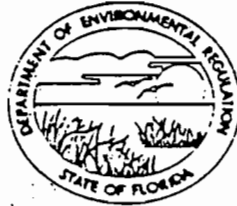
KJB:dkh  
0291S

Enc.

AC53-125990

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM  
GOVERNOR

VICTORIA J. TSCHINKEL  
SECRETARY

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Boiler [ ] New<sup>1</sup> [X] Existing<sup>1</sup>  
APPLICATION TYPE: [X] Construction [ ] Operation [X] Modification  
COMPANY NAME: Ben Hill Griffin Citrus Co. COUNTY: Polk  
Identify the specific emission point source(s) addressed in this application (i.e. Lime  
Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Boiler No. 2  
SOURCE LOCATION: Street 5th St. & Alt. 27 city Frostproof  
UTM: East 448000M North 3068500M  
Latitude 27 ° 44 ' 22 "N Longitude 81 ° 31 ' 58 "W  
APPLICANT NAME AND TITLE: W.K. Miller, Plant Manager  
APPLICANT ADDRESS: P.O. Box 2000

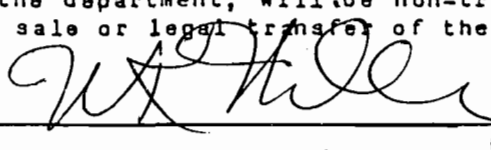
SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative\* of Ben Hill Griffin Citrus Co.

I certify that the statements made in this application for a Modification of a  
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:   
W. K. MILLER, PLANT MANAGER  
Name and Title (Please Type)

Date: 9/9/86 Telephone No. 813-635-2211

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

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

DER Form 17-1.202(1)  
Effective October 31, 1982

Page 1 of 12

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 Robert O. Covington  
Robert O. Covington  
Name (Please Type)  
R.O. Covington and Associates  
Company Name (Please Type)  
Rt. 3 Box 248 Bartow, FL  
Mailing Address (Please Type)

Florida Registration No. 016041 Date: \_\_\_\_\_ Telephone No. (813)533-6282

SECTION II: GENERAL PROJECT INFORMATION

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

This application will modify operating permit no. A053-81687 to allow burning of No.6 Fuel Oil in Boiler No. 2, in addition to the presently permitted Natural Gas. The source will comply with all applicable State of Florida Regulations.

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

Start of Construction Not applicable Completion of Construction \_\_\_\_\_

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

Not applicable

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

A053-49387 - issued 2/25/82 , expired 1/10/84 ; A053-81687-issued 4/16/84, will expire 3/28/89.

E. Requested permitted equipment operating time: hrs/day 24; days/wk 5.5; wks/yr 26;  
if power plant, hrs/yr \_\_\_\_\_; if seasonal, describe: 3432 hours per year.

Approximately November through June of each year.

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

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

H. Do "Reasonably Available Control Technology" (RACT) requirements apply  
to this source? \_\_\_\_\_ No

- a. If yes, for what pollutants? \_\_\_\_\_
- b. If yes, in addition to the information required in this form,  
any information requested in Rule 17-2.650 must be submitted.

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

**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		

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

1. Total Process Input Rate (lbs/hr): \_\_\_\_\_

2. Product Weight (lbs/hr): \_\_\_\_\_

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

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission Rate per Rule 17-2	Allowable Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Particulates	9.91	17.0	*		34021	17.0	
SO <sub>2</sub>	136.70	234.6	*		469111	234.6	
NO <sub>2</sub>	34.55	59.2	*		118335	59.2	
CO	1.72	2.96	*		5917	2.96	
CH <sub>4</sub>	1.29	2.29	*		4438	2.29	

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

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

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

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



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

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

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
No.6 Fuel Oil	431 Gal/hr	431 Gal/Hr	65.1 mm BTU/hr
Natural Gas	0.059 mm CF/hr	0.059 mm CF/hr	65.1 mm BTU/hr

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

Fuel Analysis:

Percent Sulfur: 2.02 Percent Ash: 0.03  
 Density: 7.2 lbs/gal Typical Percent Nitrogen: not available  
 Heat Capacity: 20965 BTU/lb 150949 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 Not applicable Maximum                     

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

No liquid or solid wastes generated.



Brief description of operating characteristics of control devices: \_\_\_\_\_

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

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

### SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

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

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.

10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

**SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY**

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

Yes  No

Contaminant

Rate or Concentration

_____	_____
_____	_____
_____	_____
_____	_____

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

Yes  No

Contaminant

Rate or Concentration

_____	_____
_____	_____
_____	_____
_____	_____

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

Contaminant

Rate or Concentration

_____	_____
_____	_____
_____	_____
_____	_____

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

1. Control Device/System:

2. Operating Principles:

3. Efficiency:\*

4. Capital Costs:

\*Explain method of determining

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

10. Stack Parameters

- a. Height: \_\_\_\_\_ ft.
- b. Diameter: \_\_\_\_\_ ft.
- c. Flow Rate: \_\_\_\_\_ ACFM
- d. Temperature: \_\_\_\_\_ °F.
- e. Velocity: \_\_\_\_\_ FPS

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

1.

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

2.

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

<sup>1</sup>Explain method of determining efficiency.

<sup>2</sup>Energy to be reported in units of electrical power - KWH design rate.

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

3.

a. Control Device:

b. Operating Principles:

c. Efficiency:<sup>1</sup>

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:<sup>2</sup>

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

4.

a. Control Device:

b. Operating Principles:

c. Efficiency:<sup>1</sup>

d. Capital Costs:

e. Useful Life:

f. Operating Cost:

g. Energy:<sup>2</sup>

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

F. Describe the control technology selected:

1. Control Device:

2. Efficiency:<sup>1</sup>

3. Capital Cost:

4. Useful Life:

5. Operating Cost:

6. Energy:<sup>2</sup>

7. Maintenance Cost:

8. Manufacturer:

9. Other locations where employed on similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

Explain method of determining efficiency.

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

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant

Rate or Concentration


(8) Process Rate:<sup>1</sup>

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant

Rate or Concentration


(8) Process Rate:<sup>1</sup>

10. Reason for selection and description of systems:

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

SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION

A. Company Monitored Data

1. \_\_\_\_\_ no. sites \_\_\_\_\_ TSP \_\_\_\_\_ ( ) SO<sub>2</sub>+ \_\_\_\_\_ Wind spd/dir

Period of Monitoring \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ to \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
month day year month day year

Other data recorded \_\_\_\_\_

Attach all data or statistical summaries to this application.

Specify bubbler (B) or continuous (C).

2. Instrumentation, Field and Laboratory

- a. Was instrumentation EPA referenced or its equivalent?  Yes  No
- b. Was instrumentation calibrated in accordance with Department procedures?  
 Yes  No  Unknown

B. Meteorological Data Used for Air Quality Modeling

- 1. \_\_\_\_\_ Year(s) of data from \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ to \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
month day year month day year
- 2. Surface data obtained from (location) \_\_\_\_\_
- 3. Upper air (mixing height) data obtained from (location) \_\_\_\_\_
- 4. Stability wind rose (STAR) data obtained from (location) \_\_\_\_\_

C. Computer Models Used

- 1. \_\_\_\_\_ Modified? If yes, attach description.
- 2. \_\_\_\_\_ Modified? If yes, attach description.
- 3. \_\_\_\_\_ Modified? If yes, attach description.
- 4. \_\_\_\_\_ Modified? If yes, attach description.

Attach copies of all final model runs showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data

Pollutant	Emission Rate
TSP	_____ grams/sec
SO <sup>2</sup>	_____ grams/sec

E. Emission Data Used in Modeling

Attach list of emission sources. Emission data required is source name, description of point source (on NEDS point number), UTM coordinates, stack data, allowable emissions, and normal operating time.

F. Attach all other information supportive to the PSD review.

G. Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include assessment of the environmental impact of the sources.

H. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.



## Emission Calculations

### Particulate

$$\frac{23 \text{ LB}}{1000 \text{ Gal}} \times 431 \frac{\text{Gal}}{\text{HR}} = 9.91 \text{ LB/hr} \times 3432 \text{ HR/YR} = 34021 \text{ LB/YR}$$

$$\frac{34021 \text{ LB/YR}}{2000 \text{ LB/TON}} = 17.01 \text{ TON/YR}$$

### SO<sub>2</sub>

$$\frac{(157)(2.02) \text{ LB}}{1000 \text{ GAL}} \times \frac{431 \text{ GAL}}{\text{HR}} = 136.70 \text{ LB/HR} \times 3432 = 469111 \text{ LB/YR}$$

$$\frac{469111 \text{ LB/YR}}{2000 \text{ LB/TON}} = 234.65 \text{ TON/YR}$$

### Nitrogen Oxides

$$\frac{80 \text{ LBS}}{1000 \text{ GAL}} \times \frac{431 \text{ GAL}}{\text{HR}} = 34.55 \text{ LB/HR} \times 3432 \text{ HR/YR} = 118335 \text{ LB/YR}$$

$$\frac{118335 \text{ LB/YR}}{2000 \text{ LB/TON}} = 59.17 \text{ TON/YR}$$

### Carbon Monoxide

$$\frac{4 \text{ LB}}{1000 \text{ Gal}} \times \frac{431 \text{ GAL}}{\text{HR}} = 1.72 \text{ LB/HR} \times 3432 \text{ HR/YR} = 5917 \text{ LB/YR}$$

$$\frac{5917 \text{ LB/YR}}{2000 \text{ LB/TON}} = 2.96 \text{ TON/YR}$$

### Hydrocarbons

$$\frac{3 \text{ LB}}{1000 \text{ Gal}} \times \frac{431 \text{ GAL}}{\text{HR}} = 1.29 \text{ LB/HR} \times 3432 \text{ HR/YR} = 4438 \text{ LB/YR}$$

$$\frac{4438 \text{ LB/YR}}{2000 \text{ LB/TON}} = 2.29 \text{ TON/YR}$$

Calculations based on:

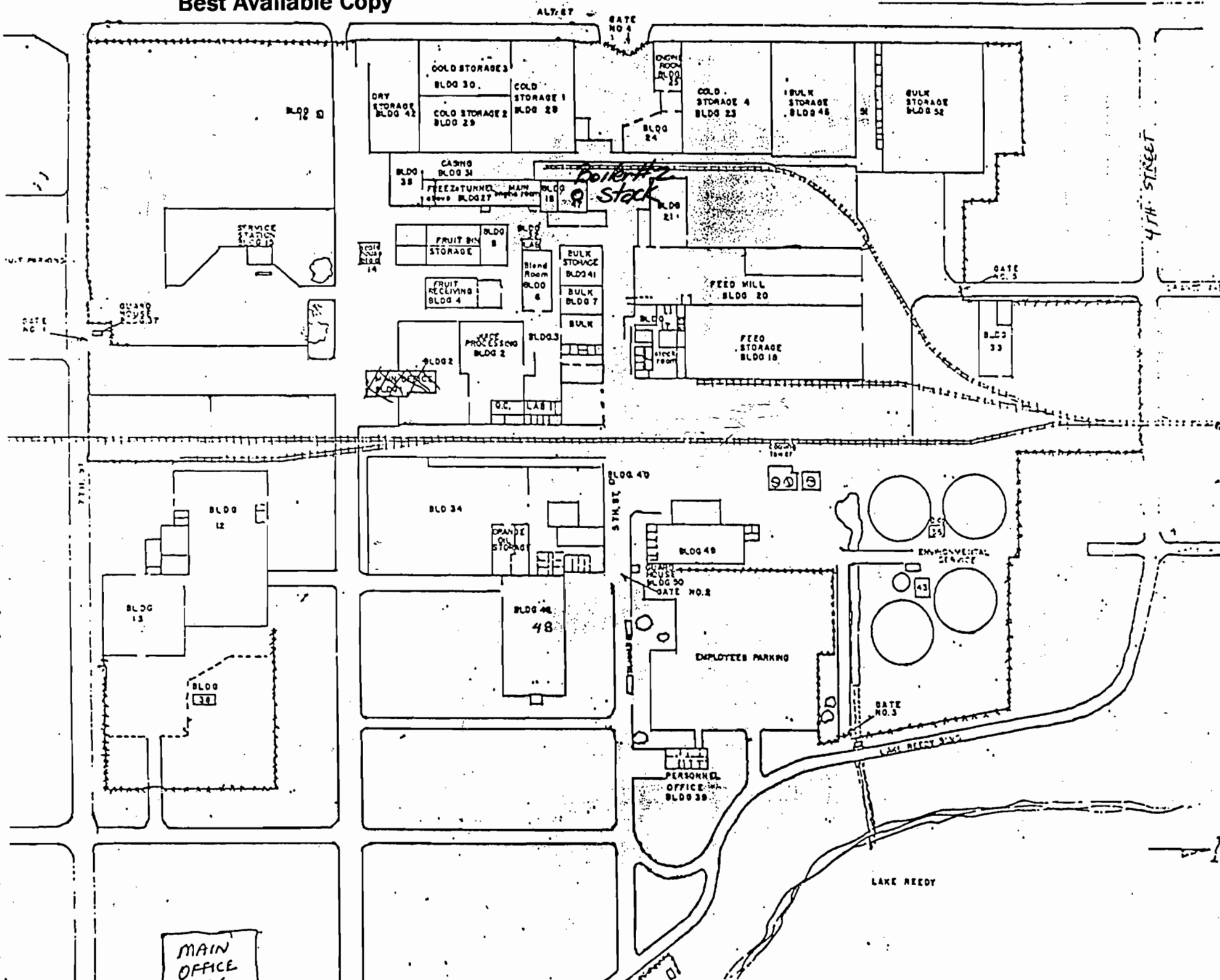
431 GAL/HR No. 6 Fuel Oil

3432 HR/YR Operation

Emission factors from AP-42, Table 1.3 - 1.

Best Available Copy

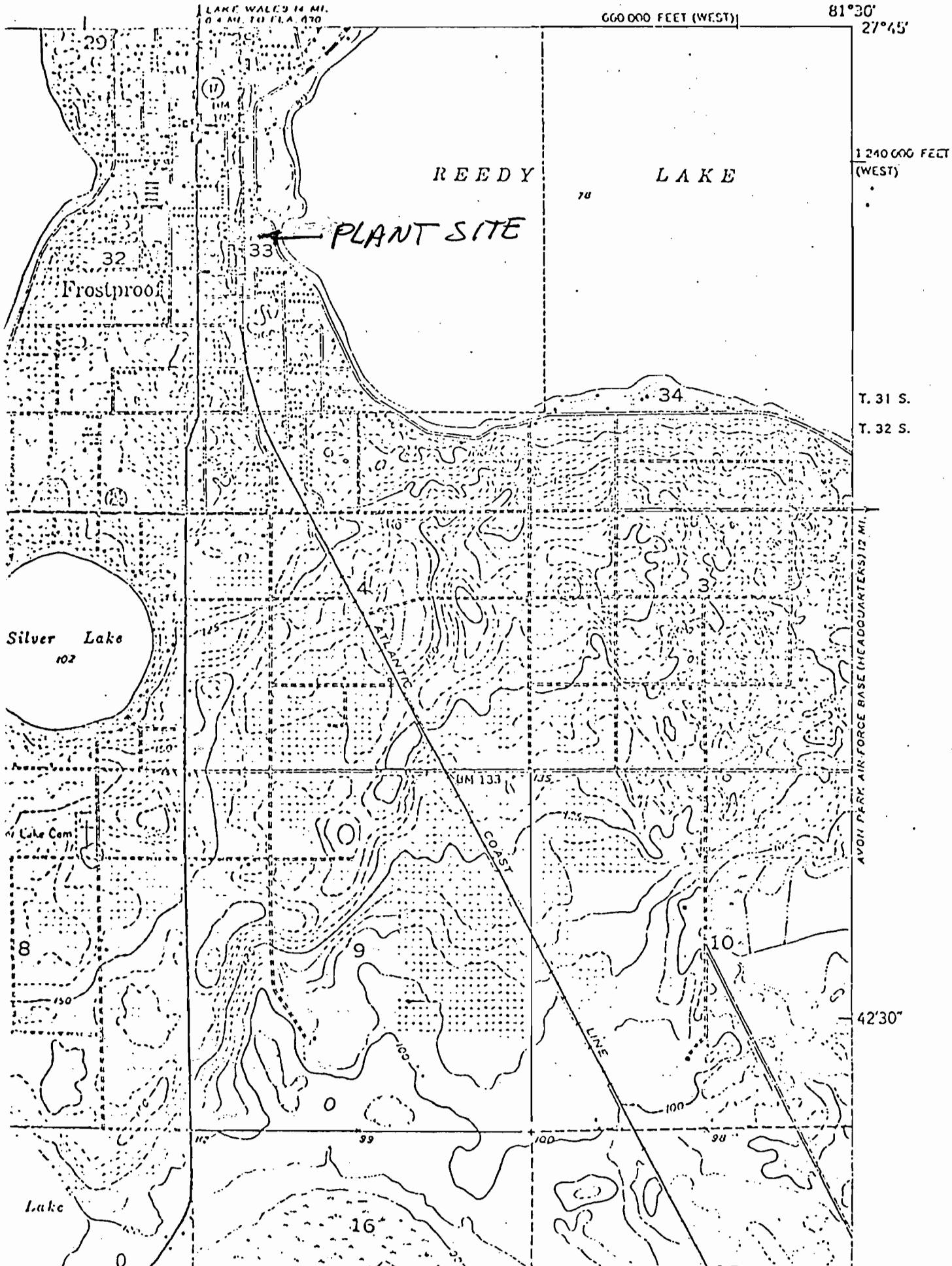
PLANT SITE



# FROSTPROOF QUADRANGLE

FLORIDA

7.5 MINUTE SERIES (TOPOGRAPHIC)



LAKE WALKER 14 MI.  
0.4 MI. TO FLA. 470

660 000 FEET (WEST)

81°30'  
27'45"

REEDY LAKE

PLANT SITE

1 240 000 FEET  
(WEST)

T. 31 S.

T. 32 S.

Silver Lake  
102

UM 133

UM 135

AVON PARK AIR FORCE BASE (HEADQUARTERS) 12 MI.

81°30'  
42'30"

Lake

16

# DATA SHEET

Boiler # 2

Mfg.-E.Keeler Co.  
Ser#-16004  
Yr.blk.-1975  
Std#-NE5153  
B.H.S.-3710  
lbs.st./hr-50,000  
S.W.P.-250  
W.W.H.S.-615

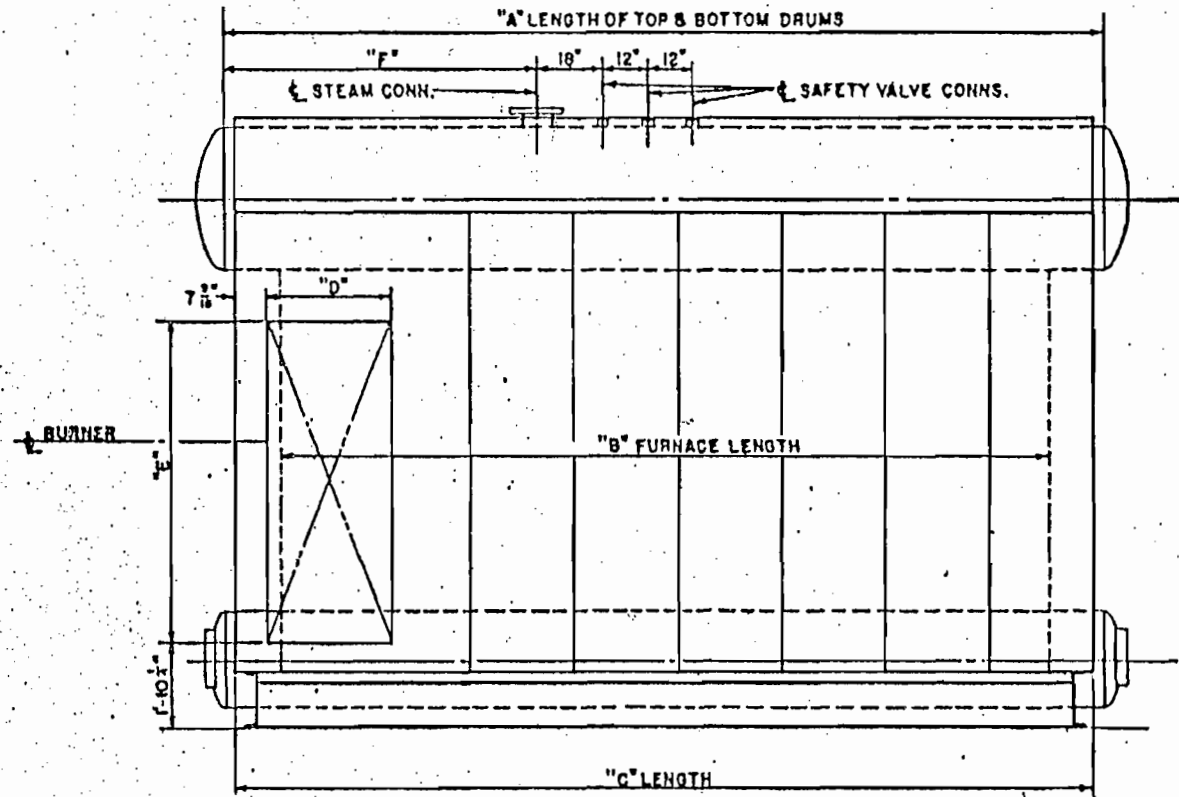
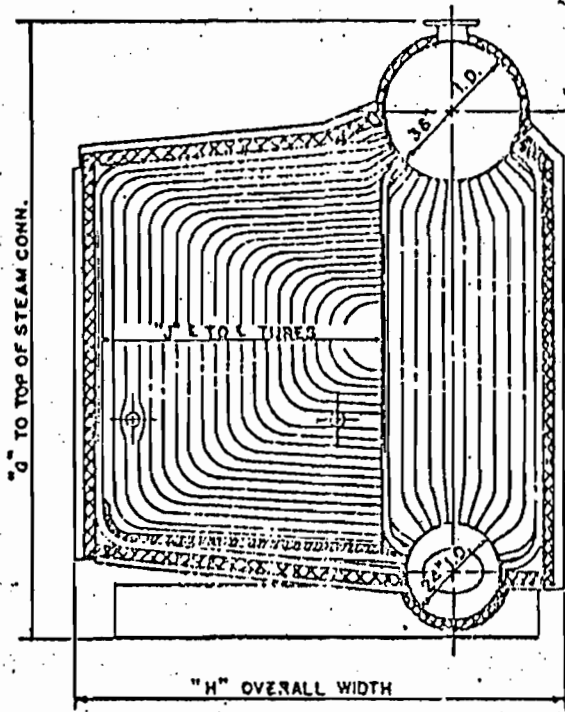
Faber Air Register  
Size-DJ23.5  
Contract#-16005  
Mdl#WEI-25.5  
Cap-3.230 oil/hr  
Fuel-Nat.gas,<sup>#</sup>2&6 oil  
cf/gas-65,100  
# of tubes-600

Boiler- #2 Economizer  
Mfg. E-Tech  
Job#-E-104  
Mdl#-BOX ECONOMIZER

Boiler #2 Air Mizer and Recorder  
Mdl-40  
Mfg. Ametek  
Mdl# 11DJ5120-4320DA  
NI 3/15psi  
Span-C  
Ser# 82102-1-5

Boiler #1 and #2 Air mizer recorder  
Mdl 28-311-1102644634  
Recorder Ser#-2372959  
Fuse  $\frac{1}{4}$ amp  
Volts-117

Boiler #2 Cleveland controls series 6400 recorder  
Mdl#6423-4212-0000-11-00  
Ser#28842  
Chart speed-24hr  
Chart# 64009  
Calibration range-4-20MADC  
Szele factor- A red x 10000, B red x 50  
Scale range-0-50,000 pph



BOILER SIZE	A	B	C	D	E	F	G	H	J	STACK DIA. REQ'D.	FURNACE VOLUME CU. FT.
DS-30	13'-8 3/8"	11'-3"	13'-2 3/8"	2'-6 3/8"	8'-0"	6'-0"	13'-6"	11'-0"	6'-6 7/8"	33	625
DS-35	15'-3 3/8"	13'-3"	15'-2 3/8"	2'-6 3/8"	8'-0"	6'-0"	13'-6"	11'-0"	6'-6 7/8"	36	735
DS-40	17'-8 3/8"	15'-3"	17'-2 3/8"	2'-6 3/8"	8'-0"	6'-0"	13'-6"	11'-0"	6'-6 7/8"	40	845
DS-45	19'-8 3/8"	17'-3"	19'-2 3/8"	2'-6 3/8"	8'-0"	7'-6"	13'-6"	11'-0"	6'-6 7/8"	42	955
DS-50	21'-6 3/8"	19'-3"	21'-2 3/8"	2'-6 3/8"	8'-0"	7'-6"	13'-6"	11'-0"	6'-6 7/8"	44	1065
DS-55	23'-8 3/8"	21'-3"	23'-2 3/8"	2'-6 3/8"	8'-0"	7'-6"	13'-6"	11'-0"	6'-6 7/8"	46	1175
DS-60	25'-3 3/8"	23'-3"	25'-2 3/8"	2'-6 3/8"	8'-0"	8'-0"	13'-6"	11'-0"	6'-6 7/8"	48	1285
DS-65	27'-3 3/8"	25'-3"	27'-2 3/8"	2'-6 3/8"	8'-0"	8'-0"	13'-6"	11'-0"	6'-6 7/8"	48	1400
DS-70	29'-8 3/8"	27'-3"	29'-2 3/8"	2'-6 3/8"	8'-0"	8'-0"	13'-6"	11'-0"	6'-6 7/8"	50	1525
DS-75	31'-8 3/8"	29'-3"	31'-2 3/8"	2'-6 3/8"	8'-0"	8'-0"	13'-6"	11'-0"	6'-6 7/8"	50	1620

NOTE:  
UNITS AVAILABLE WITH GAS OUTLET  
ON LEFT SIDE UPON REQUEST

E. KEELER COMPANY  
WILLIAMSPORT, PA.  
PRELIMINARY DRAWING

# FLOW SHEET

## SPECIFICATION

### FULL LOAD

CUSTOMER BEN HILL GRIFFIN

DATE AUGUST 10, 1978

QUOTE 8866 #2

SERVICE KEELER

DIMENSIONS L 9.33FT W 3.36FT H 5.22FT DUCT OPENING L 6.17FT W 28.37IN

### PERFORMANCE

	TUBE	SHELL	DESIGN
FLUID	WATER	FLUE GAS	* DESIGN PRES. 300.
HEAT TRANSFERED	2152716.		* DESIGN TEMP. 700.
RATE BTU/SQFT.DEG.	7.604		* NO OF TUBES 56.
LMTD DEG.	224.2		* NO.TUBES/ROW 7.
EXT. SURFACE SQFT		1263.	* NO.ROWS 8.
FLOW LB./HR.	40000.	47800.	
TEMPERATURE			
IN	180.	525.	* NO.OF STREAMS 2.
OUT	234.	348.	* EF.TUBE LG. 6.1670 FT
PRESSURE DROP	15.34 PSI	.861 INWC	* TUBE OD. 1.8750 IN.
OPERATING PRES.	150.PSIA	15.PSIG	* TUBE WALL MIN .120 IN.
VELOCITY	6.5FT/S	45.1FT/S	* TUBE SPEC. SA 178 A/A 106 B
FOULING FACTOR	.0010	.0100	* FIN MATERIAL CS
			* FIN HEIGHT .7500IN.
			* FIN THICKNESS .0600IN.
			* FINS/INCH 3.00
			* TUBE FITCH 4.000INSQ
			* HEADER SIZE 2.0IPS 300 RFWN

NOTES

# ( FLOWSHEET (

## SPECIFICATION

75% LOAD

CUSTOMER BEN HILL GRIFFIN

DATE AUGUST 10, 1978

QUOTE 8866 #2

SERVICE KEELER

DIMENSIONS L 9.33FT W 3.36FT H 5.22FT DUCT OPENING L 6.17FT W 28.37IN

PERFORMANCE

	TUBE	SHELL		DESIGN
FLUID	WATER	FLUE GAS	* DESIGN PRES.	300.
HEAT TRANSFERED	1565797.		* DESIGN TEMP.	700.
RATE BTU/SQFT.DEG.	6.633		* NO OF TUBES	56.
LMTD DEG.	186.9		* NO.TUBES/ROW	7.
EXT. SURFACE SQFT	1263.		* NO.ROWS	8.
FLOW LB./HR.	30000.	35850.		
TEMPERATURE				
IN	180.	485.	* NO.OF STREAMS	2.
OUT	232.	314.	* EF.TUBE LG.	6.1670 FT
PRESSURE DROP	9.13 PSI	.508 INWC	* TUBE OD.	1.8750 IN.
OPERATING PRES.	150.PSIA	15.PSIG	* TUBE WALL MIN	.120 IN.
VELOCITY	4.8FT/S	32.4FT/S	* TUBE SPEC.	SA 178 A/A 106 B
FOULING FACTOR	.0010	.0100	* FIN MATERIAL	CS
			* FIN HEIGHT	.7500IN.
			* FIN THICKNESS	.0600IN.
			* FINS/INCH	3.00
			* TUBE PITCH	4.000INSQ
			* HEADER SIZE	2.0IPS 300 RFWN

NOTES

17

AC53-125831

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



OCT 09 1986

BOB GRAHAM  
GOVERNOR

VICTORIA J. TSCHINKEL  
SECRETARY

SOUTH WEST DISTRICT  
TAMPA

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Boiler [ ] New<sup>1</sup> [X] Existing<sup>1</sup>

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

COMPANY NAME: Ben Hill Griffin Citrus Co. COUNTY: Polk

Identify the specific emission point source(s) addressed in this application (i.e. Line  
Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Boiler #1

SOURCE LOCATION: Street 5th St. and Alt. 27 city Frostproof

UTM: East 448000 M North 3068500 M

Latitude 27 ° 44 ' 22 "N Longitude 81 ° 31 ' 58 "W

APPLICANT NAME AND TITLE: W.K. Miller, Plant Manager

APPLICANT ADDRESS: P.O. Box 2000, Frostproof

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative\* of Ben Hill Griffin Citrus Co.

I certify that the statements made in this application for a Modification of a  
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 40J, 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: *W.K. Miller*

W. K. MILLER, PLANT MANAGER  
Name and Title (Please Type)

Date: 9/9/86 Telephone No. 813-635-2211

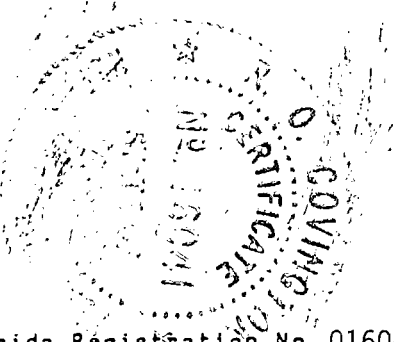
B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

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

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



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



Signed Robert O. Covington PE

Robert O. Covington  
Name (Please Type)

R.O. Covington and Associates  
Company Name (Please Type)

Rt. 3 Box 248, Bartow, Florida 33830  
Mailing Address (Please Type)

Florida Registration No. 016041 Date: \_\_\_\_\_ Telephone No. (813)533-6282

**SECTION II: GENERAL PROJECT INFORMATION**

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

This application will modify operating permit no. A053-52886 to allow burning of No.6 Fuel Oil in Boiler No.1, in addition to the presently permitted Natural Gas. The source will comply with all applicable State of Florida Regulations.

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

Start of Construction Not applicable Completion of Construction \_\_\_\_\_

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

Not applicable.

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

A053-49386 Issued 1/25/82, expired 6/13/82; A053-52886 issued 4/1/82, will expire 3/29/87.

E. Requested permitted equipment operating time: hrs/day 24; days/wk 5.5; wks/yr 26; if power plant, hrs/yr \_\_\_\_\_; if seasonal, describe: 3432 hours per year. Approximately November through June of each year.

F. If this is a new source or major modification, answer the following questions. (Yes or **NO**)

1. Is this source in a non-attainment area for a particular pollutant? \_\_\_\_\_

a. If yes, has "offset" been applied? \_\_\_\_\_

b. If yes, has "Lowest Achievable Emission Rate" been applied? \_\_\_\_\_

c. If yes, list non-attainment pollutants. \_\_\_\_\_

2. Does best available control technology (SACT) apply to this source? If yes, see Section VI. \_\_\_\_\_

3. Does the State "Prevention of Significant Deterioration" (PSD) requirement apply to this source? If yes, see Sections VI and VII. \_\_\_\_\_

4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source? \_\_\_\_\_

5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? \_\_\_\_\_

H. Do "Reasonably Available Control Technology" (RACT) requirements apply to this source? No

a. If yes, for what pollutants? \_\_\_\_\_

b. If yes, in addition to the information required in this form, any information requested in Rule 17-2.650 must be submitted.

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

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

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

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

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

1. Total Process Input Rate (lbs/hr): Not applicable
2. Product Weight (lbs/hr): Not applicable

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

Name of Contaminant	Emission <sup>1</sup>		Allowed <sup>2</sup> Emission Rate per Rule 17-2	Allowable <sup>3</sup> Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Particulates	10.40	17.85	*		35693	17.85	
SO <sub>2</sub>	143.35	245.98	*		491977	245.98	
NO <sub>2</sub>	36.16	62.05	*		124101	62.05	
CO	1.81	3.10	*		6205	3.10	
CH <sub>4</sub>	1.36	2.33	*		4654	2.33	

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

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

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

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

\* Chapter 17-2.600(6)

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

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

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
No.6 Fuel Oil	452 Gal/hr	452 Gal/hr	68.23 mm BTU/hr
Natural Gas	0.065 mm CF/hr	0.065 mm CF/hr	68.23 mm BTU/hr

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

Fuel Analysis:

Percent Sulfur: 2.02 Percent Ash: 0.03  
 Density: 7.2 lbs/gal Typical Percent Nitrogen: not available  
 Heat Capacity: 20,965 BTU/lb 150949 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 None Maximum                     

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

No liquid or solid wastes generated.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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

Stack Height: 68 ft. Stack Diameter: 3.2 ft.  
Gas Flow Rate: 18007 ACFM \_\_\_\_\_ DSCFM Gas Exit Temperature: 365 °F.  
Water Vapor Content: \_\_\_\_\_ % Velocity: 37.3 FPS

SECTION IV: INCINERATOR INFORMATION

NOT APPLICABLE

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

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

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

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

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

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

Brief description of operating characteristics of control devices: \_\_\_\_\_

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

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

#### SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

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

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.

10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

**SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY**

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

Yes  No

Contaminant

Rate or Concentration

_____	_____
_____	_____
_____	_____

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

Yes  No

Contaminant

Rate or Concentration

_____	_____
_____	_____
_____	_____

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

Contaminant

Rate or Concentration

_____	_____
_____	_____
_____	_____

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

1. Control Device/System:

2. Operating Principles:

3. Efficiency:\*

4. Capital Costs:

\*Explain method of determining

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

10. Stack Parameters

- a. Height: ft.      b. Diameter: ft.
- c. Flow Rate: ACFM      d. Temperature: °F.
- e. Velocity: FPS

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

1.

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

2.

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

<sup>1</sup>Explain method of determining efficiency.

<sup>2</sup>Energy to be reported in units of electrical power - KWH design rate.



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

3.

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

4.

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

F. Describe the control technology selected:

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

Explain method of determining efficiency.  
 Energy to be reported in units of electrical power - KWH design rate.

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant

Rate or Concentration


(8) Process Rate:<sup>1</sup>

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant

Rate or Concentration


(8) Process Rate:<sup>1</sup>

10. Reason for selection and description of systems:

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

### SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION

#### A. Company Monitored Data

1. \_\_\_\_\_ no. sites \_\_\_\_\_ TSP \_\_\_\_\_ ( ) SO<sub>2</sub>\* \_\_\_\_\_ Wind spd/dir

Period of Monitoring \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ to \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
month day year month day year

Other data recorded \_\_\_\_\_

Attach all data or statistical summaries to this application.

Specify bubbler (B) or continuous (C).

2. Instrumentation, Field and Laboratory

a. Was instrumentation EPA referenced or its equivalent? [ ] Yes [ ] No

b. Was instrumentation calibrated in accordance with Department procedures?  
[ ] Yes [ ] No [ ] Unknown

B. Meteorological Data Used for Air Quality Modeling

1. \_\_\_\_\_ Year(s) of data from \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ to \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
month day year month day year

2. Surface data obtained from (location) \_\_\_\_\_

3. Upper air (mixing height) data obtained from (location) \_\_\_\_\_

4. Stability wind rose (STAR) data obtained from (location) \_\_\_\_\_

C. Computer Models Used

1. \_\_\_\_\_ Modified? If yes, attach description.

2. \_\_\_\_\_ Modified? If yes, attach description.

3. \_\_\_\_\_ Modified? If yes, attach description.

4. \_\_\_\_\_ Modified? If yes, attach description.

Attach copies of all final model runs showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data

Pollutant	Emission Rate
TSP	_____ grams/sec
SO <sup>2</sup>	_____ grams/sec

E. Emission Data Used in Modeling

Attach list of emission sources. Emission data required is source name, description of point source (on NEDS point number), UTM coordinates, stack data, allowable emissions, and normal operating time.

F. Attach all other information supportive to the PSD review.

G. Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include assessment of the environmental impact of the sources.

H. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.

## Emission Calculations

### Particulates

$$\frac{23 \text{ LBS}}{1000 \text{ GAL}} \cdot \frac{452 \text{ GAL}}{\text{HOUR}} = 10.40 \text{ LB/HR} \times 3432 \text{ HR/YR} = 35693 \text{ LBS/YR}$$

$$\frac{35693 \text{ LB/YR}}{2000 \text{ LB/TON}} = 17.85 \text{ TON/YR}$$

### SO<sub>2</sub>

$$\frac{(157)(2.02)}{1000 \text{ GAL}} \cdot \frac{452 \text{ GAL}}{\text{HR}} = 143.34 \text{ LB/HR} \times 3432 \text{ HR/YR} = 491977 \text{ LB/YR}$$

$$\frac{491977 \text{ LB/YR}}{2000 \text{ LB/TON}} = 245.98 \text{ TON/YR}$$

### Nitrogen Oxides

$$\frac{80 \text{ LBS}}{1000 \text{ GAL}} \cdot \frac{452 \text{ GAL}}{\text{HR}} = 36.16 \text{ LB/HR} \times 3432 \text{ HR/YR} = 124101 \text{ LB/YR}$$

$$\frac{124101 \text{ LB/YR}}{2000 \text{ LB/TON}} = 62.05 \text{ TON/YR}$$

### Carbon Monoxide

$$\frac{4 \text{ LB}}{1000 \text{ GAL}} \cdot \frac{452 \text{ GAL}}{\text{HR}} = 1.81 \text{ LB/HR} \times 3432 \text{ HR/YR} = 6205 \text{ LB/YR}$$

$$\frac{6205 \text{ LB/YR}}{2000 \text{ LB/TON}} = 3.10 \text{ TON/YR}$$

### Hydrocarbons

$$\frac{3 \text{ LB}}{1000 \text{ GAL}} \cdot \frac{452 \text{ GAL}}{\text{HR}} = 1.36 \text{ LB/HR} \times 3432 \text{ HR/YR} = 4654 \text{ LB/YR}$$

$$\frac{4654 \text{ LB/YR}}{2000 \text{ LB/TON}} = 2.33 \text{ TON/YR}$$

Calculations based on:

452 GAL/HR No.6 Fuel Oil

3432 HR/YR Operation

Emission factors from AP-42, Tabel 1.3 - 1.

**ERIE CITY ENERGY DIVISION  
ZURN INDUSTRIES INC.**

**P E R F O R M A N C E**

**PREDICTED PERFORMANCE DATA**

**FIRING OIL**

STEAM OUTPUT.....LBS/HR	51000.	38250.	25500.
PRESSURE AT BOILER OUTLET.....PSIG	150.	150.	150.
WATER TEMPERATURE ENTERING BOILER .....DEG. F	212.	212.	212.
BLOW-DOWN WATER.....LBS/HR	0.	0.	0.
STEAM TEMPERATURE AT BOILER OUTLET.....DEG. F	366.	366.	366.
EXCESS AIR IN GAS LEAVING BOILER .....PERCENT	15.00	15.00	15.00
GAS TEMPERATURE LEAVING BOILER .....DEG. F	558.	499.	440.
AMBIENT AIR TEMPERATURE .....DEG. F	80.	80.	80.
<b>DRAFT LOSSES THROUGH ...</b>			
AIR DUCTS.....INCHES H2O	.31	.17	.07
BURNER.....INCHES H2O	4.61	2.53	1.11
BOILER .....INCHES H2O	4.81	2.60	1.11
GAS DUCTS.....INCHES H2O	.31	.17	.07
TOTAL DRAFT LOSS.....INCHES H2O	10.04	5.47	2.36
FLUE GAS LEAVING BOILER.....LBS/HR	57676.	42653.	28121.
AIR REQUIRED FOR COMBUSTION.....LBS/HR	54421.	40246.	26534.
VOLUMETRIC HEAT RELEASE (HHV) ....BTU/CU FT/HR	82857.	61275.	40399.
RADIANT HEAT RELEASE (LHV) .....BTU/SQ FT/HR	120111.	88716.	58349.
FURNACE ABSORPTION RATE.....BTU/SQ FT/HR	44081.	37839.	29816.
<b>HEAT LOSSES ...</b>			
DRY GAS.....PERCENT	9.58	8.40	7.21
HYDROGEN AND MOISTURE IN FUEL.....PERCENT	7.29	7.13	6.97
MOISTURE IN AIR.....PERCENT	.25	.22	.19
UNBURNED COMBUSTIBLE.....PERCENT	.00	.00	.00
RADIATION.....PERCENT	.67	.90	1.35
MANUFACTURER'S MARGIN.....PERCENT	1.00	1.00	1.00
TOTAL HEAT LOSS.....PERCENT	18.79	17.65	16.72
PREDICTED EFFICIENCY.....PERCENT	81.21	82.35	83.28
FUEL BURNED.....LBS/HR	3255.	2407.	1587.
FUEL BURNED.....(7.200LBS/GAL).....GALS/HR	452.	334.	220.

**GENERAL**

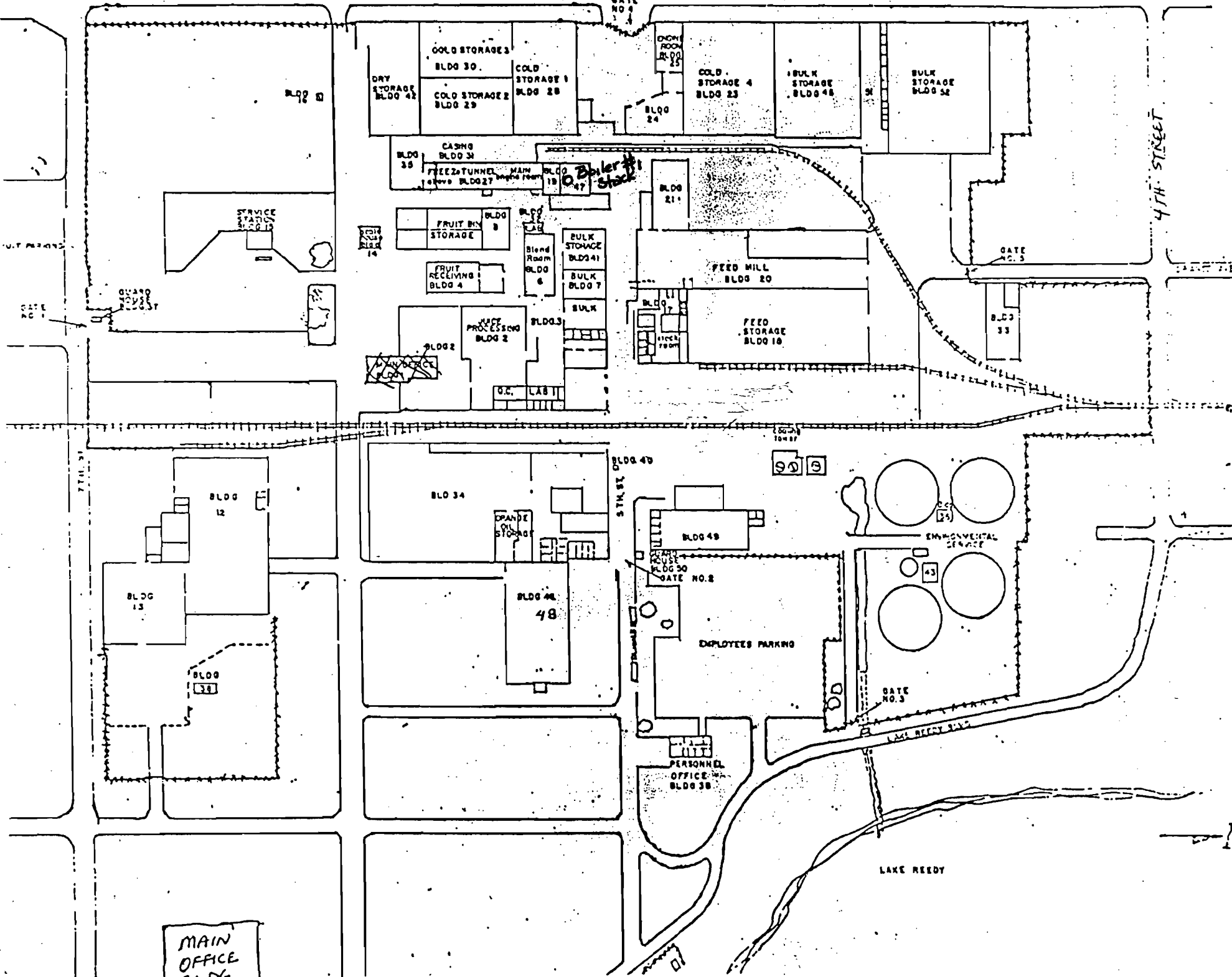
IT IS RECOGNIZED THAT THE PERFORMANCE OF THE EQUIPMENT COVERED IN THIS PROPOSAL CANNOT BE EXACTLY PREDICTED FOR EVERY POSSIBLE OPERATING CONDITION. IN CONSEQUENCE, ANY PREDICTED PERFORMANCE DATA SUBMITTED ARE INTENDED TO SHOW PROBABLE OPERATING RESULTS WHICH MAY BE CLOSELY APPROXIMATED BUT WHICH CANNOT BE GUARANTEED EXCEPT AS EXPRESSLY STATED IN THE GUARANTEE CLAUSE OR CLAUSES IN THIS PROPOSAL.

ANY PERFORMANCE CURVES SUBMITTED ARE FOR THE PURCHASER'S CONVENIENCE AND THE PERFORMANCE INDICATED THEREON IS NOT OFFERED BY THE COMPANY, NOR TO BE CONSTRUED BY THE PURCHASER, AS A PROPOSAL OF CONTRACT OBLIGATION.

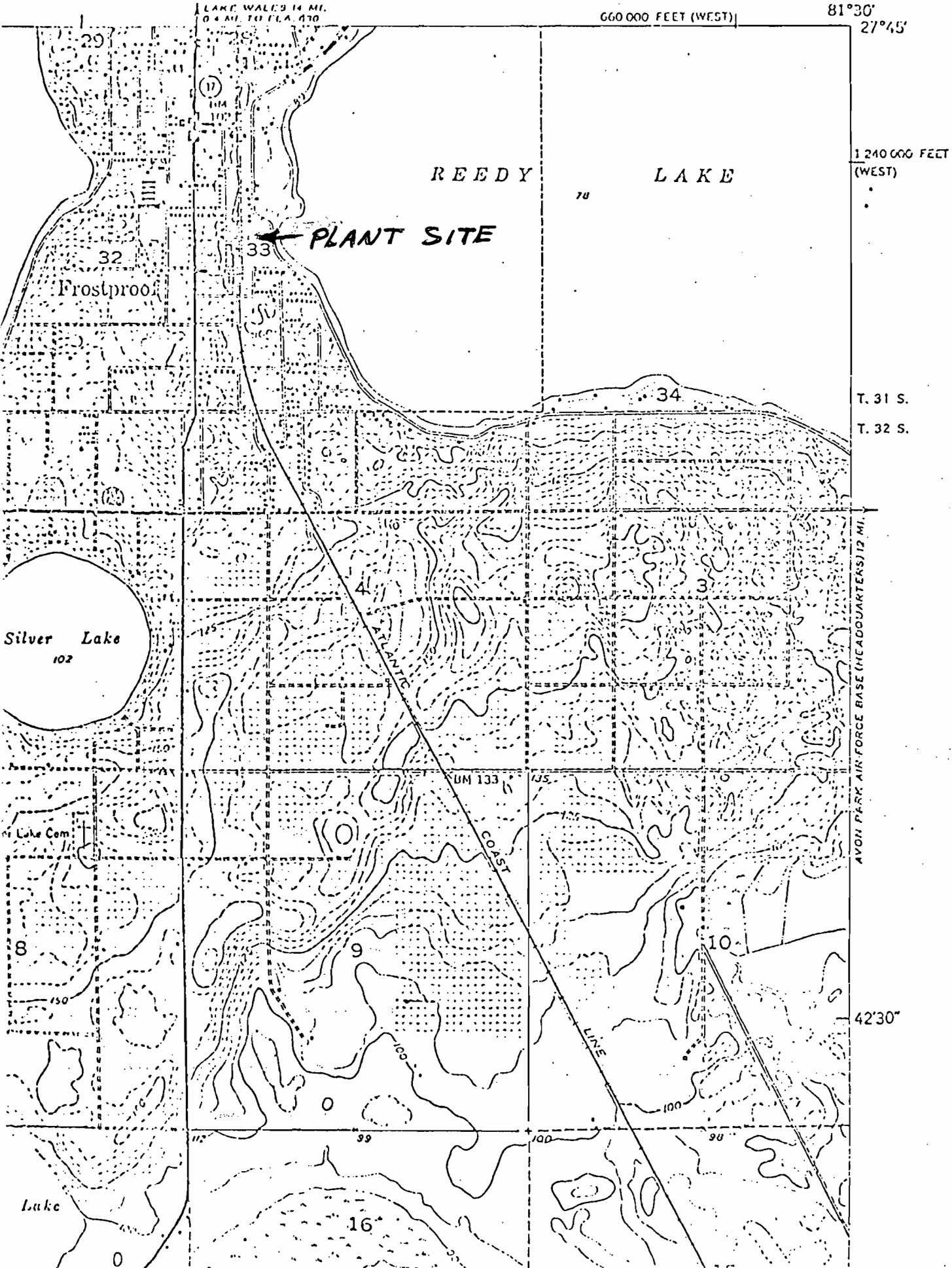
PLANT SITE

ALY. 67 GATE NO. 4

4TH STREET



FROSTPROOF QUADRANGLE  
FLORIDA  
7.5 MINUTE SERIES (TOPOGRAPHIC)



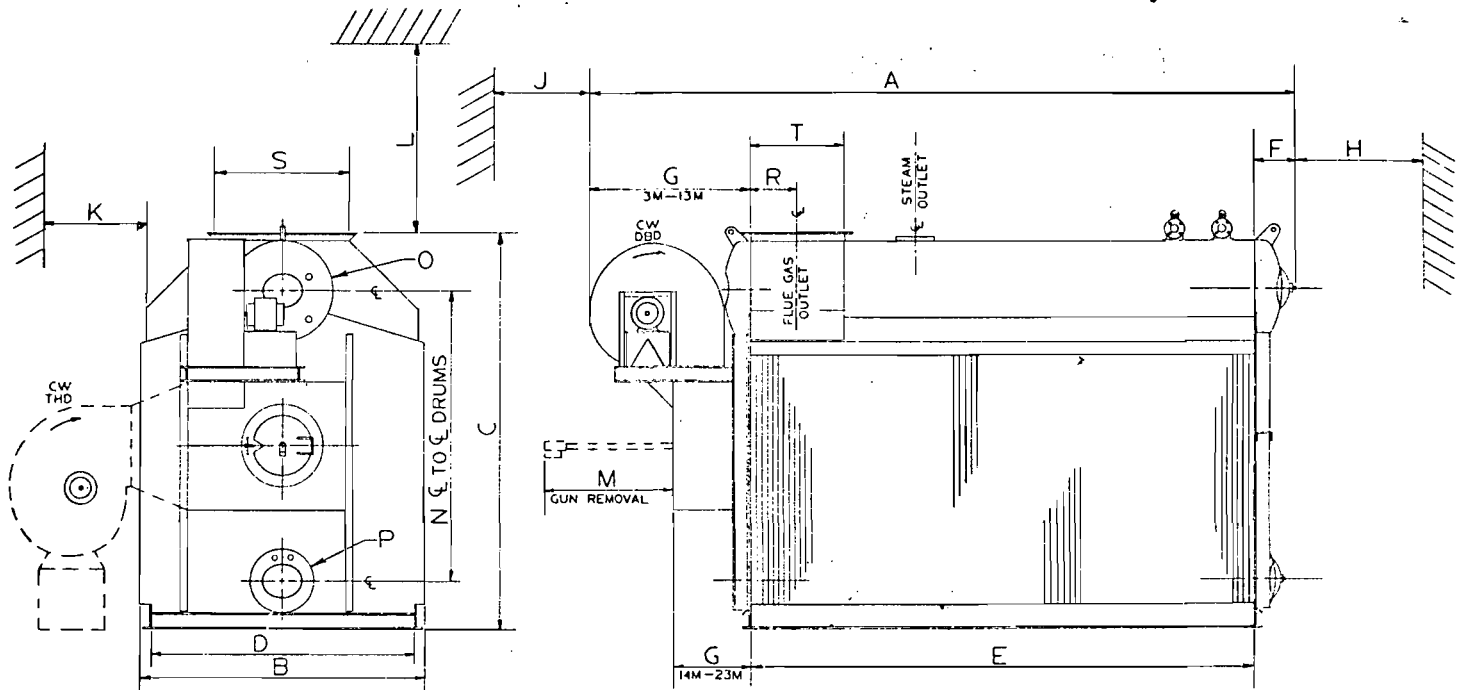


# GENERAL ARRANGEMENT KEYSTONE STEAM GENERATOR "M" SERIES

**ENGINEERING  
STANDARDS**

**DATE** 10-14-71

**APPROVED** RVS



BOILER SIZE	3M	4M	5M	6M	7M	8M	9M	10M	11M	12M	13M	14M	15M	16M	17M	18M	19M	20M	21M	22M	23M
A OVERALL LENGTH	15'-3"	15'-11"	17'-3"	19'-3"	19'-7"	20'-7"	22'-3"	22'-5"	24'-7"	26'-7"	27'-7"	25'-0"	26'-8"	28'-3"	29'-8"	30'-8"	32'-8"	35'-8"	37'-3"	39'-0"	42'-0"
B OVERALL WIDTH	7'-6"	7'-6"	7'-6"	7'-6"	9'-0"	9'-0"	9'-0"	10'-0"	10'-0"	10'-0"	10'-0"	11'-6"	11'-6"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-2"	12'-2"
C OVERALL HEIGHT	12'-8 1/2"	12'-8 1/2"	12'-5 1/2"	12'-3 1/2"	12'-8 1/2"	12'-8 1/2"	12'-3 1/2"	13'-3 1/2"	13'-3 1/2"	13'-3 1/2"	13'-3 1/2"	14'-0"	14'-0"	14'-6"	14'-6"	14'-6"	14'-6"	14'-6"	14'-6"	15'-6"	15'-6"
D BASE WIDTH	6'-9 1/2"	6'-9 1/2"	6'-9 1/2"	6'-9 1/2"	8'-3 1/4"	8'-3 1/4"	8'-3 1/4"	8'-6"	8'-6"	8'-6"	8'-6"	8'-6"	8'-6"	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"
E SHELL LENGTH	9'-9"	10'-5"	11'-9"	13'-9"	13'-1"	14'-1"	15'-9"	16'-1"	18'-1"	19'-1"	20'-1"	20'-5"	22'-1"	24'-1"	25'-1"	26'-1"	28'-1"	31'-1"	33'-1"	34'-5"	37'-5"
F REAR PROJECTION	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-7"	1'-7"	1'-7"	1'-7"	1'-7"	1'-7"	1'-7"	1'-7"	1'-7"	1'-7"
G FRONT PROJECTION	4'-0"	4'-0"	4'-0"	4'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	6'-0"	6'-0"	3'-5"	3'-5"	3'-5"	3'-5"	4'-6 3/4"	4'-6 3/4"	4'-8 1/2"	4'-8 1/2"	4'-9 1/2"	4'-6 1/2"
H REAR CLEARANCE	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
J FRONT CLEARANCE	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"
K SIDE CLEARANCE	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	DETERMINED BY LOCATION OF FAN & DUCT									
L TOP CLEARANCE	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"
M GUN REMOVAL	3'-6"	3'-6"	3'-6"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-6"	4'-6"	4'-6"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"
N $\phi$ TO $\phi$ DRUMS	9'-2"	9'-2"	9'-2"	9'-2"	9'-2"	9'-2"	9'-2"	9'-9"	9'-9"	9'-9"	9'-9"	10'-4"	10'-4"	10'-10"	10'-10"	10'-10"	10'-10"	10'-10"	10'-10"	11'-6 1/2"	11'-6 1/2"
O I.D. UPPER DRUM	38"	38"	38"	38"	38"	38"	38"	38"	38"	38"	38"	42"	42"	42"	42"	42"	42"	42"	42"	46"	46"
P I.D. LOWER DRUM	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"
R OUTLET LOCATION	1'-4"	1'-4"	1'-4"	1'-4"	1'-5 1/2"	1'-5 1/2"	1'-5 1/2"	1'-7 1/2"	1'-7 1/2"	1'-7 1/2"	1'-7 1/2"	1'-10"	1'-10"	2'-2"	2'-2"	2'-2"	2'-2"	2'-2"	2'-8"	2'-8"	3'-4"
S OUTLET WIDTH	3'-8"	3'-8"	3'-8"	3'-8"	4'-2"	4'-2"	4'-2"	5'-0"	5'-0"	5'-0"	5'-0"	5'-7"	5'-7"	7'-3"	7'-3"	7'-3"	7'-3"	7'-3"	7'-3"	7'-6"	7'-6"
T OUTLET DEPTH	2'-8"	2'-8"	2'-6"	2'-8"	2'-11"	2'-11"	2'-11"	3'-3"	3'-3"	3'-3"	3'-3"	3'-8"	3'-8"	4'-4"	4'-4"	4'-4"	4'-4"	4'-4"	5'-4"	5'-4"	6'-8"
SHIPPING WEIGHT	33,000	34,000	36,000	39,000	39,000	40,000	42,000	51,000	55,000	58,000	60,000	67,000	75,000	85,000	90,000	93,000	98,000	110,000	118,000	135,000	145,000

**NOTES:**

- SHIPPING WEIGHT AND OVERALL HEIGHT IS BASED UPON 200# DESIGN PRESSURE.
- FAN ON SIZES 14M THRU 23M NOT MOUNTED ON BOILER.
- SEE LOCAL CODES FOR POSSIBLE ADDITIONAL REQUIRED CLEARANCES AROUND UNIT.

Rev. #3-Rev. Dim. In Rows D,G,R,S & T

(9-11-70)

Rev. #4-Rev. Dim. "C" Sizes #3M-#13M

(10-12-71)

**INDEX**

**KD-1.04**



Boiler # 1

State#  
Boiler#  
Mfg. Erie City  
Type-Keystone  
Yr. Blt.-1968  
Boiler heating surface-3461 sq.ft.  
Mfg. Ser#-97819  
Max. Allowable working press.-200 psi  
Steam cap.-51,000 lbs/hr  
Burner Mdl# SAGO  
Ser.#-2268  
Size-24  
Power supply-1-60-120  
Fuel-Nat. gas/#6 oil  
Max input-63,400  
# of tubes-651

Boiler # 1 Economizer

Job# E-104  
Mdl# BOX ECONOMIZER  
Mfg. E-Tech

Boiler #1 Air Mizer Controls  
Mdl-40  
Mfg-Ameter  
Mdl#11DJ5120-4320DA  
NI-3/15psi  
Span-C  
Ser#-82102-1-10  
Man. position-9psi

Cleveland Controls series 6400 recorder  
Mdl# 6423-4212-0000-11-00  
Ser# 28842  
Chart speed-24hr.  
Chart#-64009  
Calibration range 4-20MADC  
Scale factor-A red x 1000 B red x 50  
Scale range- 0-50,000 pph

# FLOW SHEET

SPECIFICATION

FULL LOAD

CUSTOMER BEN HILL GRIFFIN

DATE AUGUST 10, 1978

QUOTE 8866 #1

SERVICE ERIE CITY

DIMENSIONS L 12.67FT W 3.03FT H 5.22FT DUCT OPENING L 9.50FT W 24.38IN

## PERFORMANCE

	TUBE	SHELL		DESIGN
FLUID	WATER	FLUE GAS	* DESIGN PRES.	300.
HEAT TRANSFERED	2717538.		* DESIGN TEMP.	700.
RATE BTU/SQFT.DEG.	7.229		* NO OF TUBES	48.
LMTD DEG.	225.4		* NO.TUBES/ROW	6.
EXT. SURFACE SQFT		1668.	* NO.ROWS	8.
FLOW LB./HR.	51000.	60945.		
TEMPERATURE				
IN	180.	525.	* NO.OF STREAMS	3.
OUT	233.	350.	* EF.TUBE LG.	9.5000 FT
PRESSURE DROP	9.03 PSI	.803 INWC	* TUBE OD.	1.8750 IN.
OPERATING PRES.	150.PSIA	15.PSIG	* TUBE WALL MIN	.120 IN.
VELOCITY	5.5FT/S	43.4FT/S	* TUBE SPEC.	SA 178 A/A 106 B
FOULING FACTOR	.0010	.0100	* FIN MATERIAL	CS
			* FIN HEIGHT	.7500IN.
			* FIN THICKNESS	.0600IN.
			* FINS/INCH	3.00
			* TUBE PITCH	4.000INSQ
			* HEADER SIZE	2.01FS 300 RFWN

NOTES

# FLOW SHEET

SPECIFICATION

75% OF RATED BOILER LOAD

CUSTOMER BEN HILL GRIFFIN

DATE AUGUST 10, 1978

QUOTE 8866 #1

SERVICE ERIE CITY

DIMENSIONS L 12.67FT W 3.03FT H 5.22FT DUCT OPENING L 9.50FT W 24.38IN

## PERFORMANCE

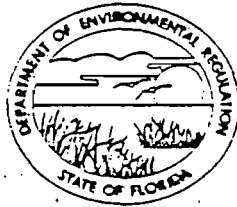
	TUBE	SHELL	DESIGN
FLUID	WATER	FLUE GAS	* DESIGN PRES. 300.
HEAT TRANSFERED	2110564.		* DESIGN TEMP. 700.
RATE BTU/SQFT.DEG.	6.488		* NO OF TUBES 48.
LMTD DEG.	195.1		* NO.TUBES/ROW 6.
EXT. SURFACE SQFT	1668.		* NO.ROWS 8.
FLOW LB./HR.	38250.	45709.	
TEMPERATURE			
IN	180.	500.	* NO.OF STREAMS 3.
OUT	235.	319.	* EF.TUBE LG. 9.5000 FT
PRESSURE DROP	5.36 PSI	.478 INWC	* TUBE OD. 1.8750 IN.
OPERATING PRES.	150.PSIA	15.PSIG	* TUBE WALL MIN .120 IN.
VELOCITY	4.1FT/S	31.5FT/S	* TUBE SPEC. SA 178 A/A 106 B
FOULING FACTOR	.0010	.0100	* FIN MATERIAL CS
			* FIN HEIGHT .7500IN.
			* FIN THICKNESS .0600IN.
			* FINS/INCH 3.00
			* TUBE PITCH 4.000INSQ
			* HEADER SIZE 2.0IPS 300 RFWN

NOTES

AC 53-125508

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



D. E. L.  
OCT 09 1986  
SOUTH WEST DISTRICT  
TAMPA  
BOB GRAHAM  
GOVERNOR  
VICTORIA J. TSCHINKEL  
SECRETARY

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Citrus Peel Dryer [ ] New<sup>1</sup> [X] Existing<sup>1</sup>  
APPLICATION TYPE: [X] Construction [ ] Operation [X] Modification  
COMPANY NAME: Ben Hill Griffin Citrus Co. COUNTY: Polk  
Identify the specific emission point source(s) addressed in this application (i.e. Lime  
Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Citrus Peel Dryer W/WHE  
SOURCE LOCATION: Street 5th St. & Alt 27 city Frostproof  
UTM: East 448000 M North 3068500 M  
Latitude 27 ° 44 ' 22 "N Longitude 81 ° 31 ' 58 "W  
APPLICANT NAME AND TITLE: W.K. Miller, Plant Manager  
APPLICANT ADDRESS: P.O. Box 2000

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative\* of Ben Hill Griffin Citrus Co.

I certify that the statements made in this application for a Modification of a  
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: *W.K. Miller*

W. K. MILLER, PLANT MANAGER  
Name and Title (Please Type)

Date: 9/9/86 Telephone No. 813-635-2211

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

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

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

Signed Robert O Covington PE

Robert O. Covington  
Name (Please Type)

R.O. Covington and Associates  
Company Name (Please Type)

Rt. 3 Box 248 Bartow, FL 33830  
Mailing Address (Please Type)

Florida Registration No. 016041 Date: \_\_\_\_\_ Telephone No. (813)533-6282

**SECTION II: GENERAL PROJECT INFORMATION**

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

This application will modify operating permit no. A053-52885 to allow burning of No.6 fuel oil in the Citrus Peel Dryer with Waste Heat Evaporator, in addition to the presently permitted Natural Gas. The source will be in compliance with all applicable State of Florida Regulations.

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

Start of Construction Not applicable Completion of Construction \_\_\_\_\_

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

Not applicable

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

A053-49384 - issued 1/25/82 , expired February 1982; A053-52855 issued 2/27/82, will expire 3/29/87.

E. Requested permitted equipment operating time: hrs/day 24; days/wk 5; wks/yr 25;  
if power plant, hrs/yr \_\_\_\_\_; if seasonal, describe: 3000 hours per year.  
Approximately November through June of each year.

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

1. Is this source in a non-attainment area for a particular pollutant? \_\_\_\_\_  
a. If yes, has "offset" been applied? \_\_\_\_\_  
b. If yes, has "Lowest Achievable Emission Rate" been applied? \_\_\_\_\_  
c. If yes, list non-attainment pollutants. \_\_\_\_\_

2. Does best available control technology (BACT) apply to this source?  
If yes, see Section VI. \_\_\_\_\_

3. Does the State "Prevention of Significant Deterioration" (PSD)  
requirement apply to this source? If yes, see Sections VI and VII. \_\_\_\_\_

4. Do "Standards of Performance for New Stationary Sources" (NSPS)  
apply to this source? \_\_\_\_\_

5. Do "National Emission Standards for Hazardous Air Pollutants"  
(NESHAP) apply to this source? \_\_\_\_\_

H. Do "Reasonably Available Control Technology" (RACT) requirements apply  
to this source? No

- a. If yes, for what pollutants? \_\_\_\_\_  
b. If yes, in addition to the information required in this form,  
any information requested in Rule 17-2.650 must be submitted.

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

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		
Wet Citrus Peel	Particulate		152,000 lb/hr	
Lime	Particulate		680 lb/hr	
		total 0.02		

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

1. Total Process Input Rate (lbs/hr): 152,000 lb/hr Wet Citrus Peel

2. Product Weight (lbs/hr): 32,000 lb/hr (dried feed - 10% moist)

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

Name of Contaminant	Emission <sup>1</sup>		Allowed <sup>2</sup> Emission Rate per Rule 17-2	Allowable <sup>3</sup> Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Particulate	13.34	20	*		40,020	20	
SO <sub>2</sub>	183.94	276.	*		551,824	276	
NO <sub>2</sub>	46.40	70	*		139,200	70	
CO	2.32	3.5	*		6,960	3.5	
CH <sub>4</sub>	1.74	2.6	*		5,220	2.6	

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

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

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

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

\* Chapter 17-2.600(6)

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

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

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
No.6 Fuel Oil	580 Gal/hr	580 Gal/hr	90.0 mm BTU/hr
Natural Gas	0.060 mm CF/hr	0.060 mm CF/hr	63.0 mm BTU/hr

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

Fuel Analysis:

Percent Sulfur: 2.02 Percent Ash: 0.03  
 Density: 7.2 lbs/gal Typical Percent Nitrogen: not available  
 Heat Capacity: 20965 BTU/lb 150949 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 None Maximum                     

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

No solid or liquid wastes generated.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_





Brief description of operating characteristics of control devices: \_\_\_\_\_

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

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

#### SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

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

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

**SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY**

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

Yes  No

Contaminant	Rate or Concentration

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

Yes  No

Contaminant	Rate or Concentration

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

Contaminant	Rate or Concentration

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

- |                           |                          |
|---------------------------|--------------------------|
| 1. Control Device/System: | 2. Operating Principles: |
| 3. Efficiency:*           | 4. Capital Costs:        |

\*Explain method of determining

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

10. Stack Parameters

- a. Height: ft.
- b. Diameter: ft.
- c. Flow Rate: ACFM
- d. Temperature: °F.
- e. Velocity: FPS

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

1.

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

2.

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

<sup>1</sup>Explain method of determining efficiency.

<sup>2</sup>Energy to be reported in units of electrical power - KWH design rate.

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

3.

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

4.

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

F. Describe the control technology selected:

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

<sup>1</sup> Explain method of determining efficiency.  
 Energy to be reported in units of electrical power - KWH design rate.

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

(8) Process Rate:<sup>1</sup>

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

(8) Process Rate:<sup>1</sup>

10. Reason for selection and description of systems:

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

## SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION

### A. Company Monitored Data

1. \_\_\_\_\_ no. sites \_\_\_\_\_ TSP \_\_\_\_\_ ( ) SO<sub>2</sub>+ \_\_\_\_\_ Wind spd/dir

Period of Monitoring \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ to \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
month day year month day year

Other data recorded \_\_\_\_\_

Attach all data or statistical summaries to this application.

Specify bubbler (B) or continuous (C).



## Emission Calculations

### Particulate

$$\frac{23 \text{ LB}}{1000 \text{ GAL}} \times \frac{580 \text{ GAL}}{\text{HR}} = 13.34 \text{ LB/HR} \times 3000 \text{ HR/YR} = 40,020 \text{ LB/YR}$$

$$\frac{40,020 \text{ LB/YR}}{2000 \text{ LB/TON}} = 20.02 \text{ TON/YR}$$

### SO<sub>2</sub>

$$\frac{(157)(2.02) \text{ LB/YR}}{1000 \text{ GAL}} \times \frac{580 \text{ GAL}}{\text{HR}} = 183.94 \text{ LB/HR} \times 3000 \text{ HR/YR} = 551824 \text{ LB/YR}$$

$$\frac{551824 \text{ LB/YR}}{2000 \text{ LB/TON}} = 276 \text{ TON/YR}$$

### Nitrogen Oxides

$$\frac{80 \text{ LB}}{1000 \text{ GAL}} \times \frac{580 \text{ GAL}}{\text{HR}} = 46.40 \text{ LB/HR} \times 3000 \text{ HR/YR} = 139,200 \text{ LB/YR}$$

$$\frac{139200 \text{ LB/YR}}{2000 \text{ LB/TON}} = 69.6 \text{ TON/YR}$$

### Carbon Monoxide

$$\frac{4 \text{ LBS}}{1000 \text{ GAL}} \times \frac{580 \text{ GAL}}{\text{HR}} = 2.32 \text{ LB/HR} \times 3000 \text{ HR/YR} = 6960 \text{ LB/YR}$$

$$\frac{6960 \text{ LB/YR}}{2000 \text{ LB/TON}} = 3.5 \text{ TON/YR}$$

### Hydrocarbons

$$\frac{3 \text{ LB}}{1000 \text{ GAL}} \times \frac{580 \text{ GAL}}{\text{HR}} = 1.74 \text{ LB/HR} \times 3000 \text{ HR/YR} = 5220 \text{ LB/YR}$$

$$\frac{5220 \text{ LB/YR}}{2000 \text{ LB/TON}} = 2.6 \text{ TON/YR}$$

Calculations based on:

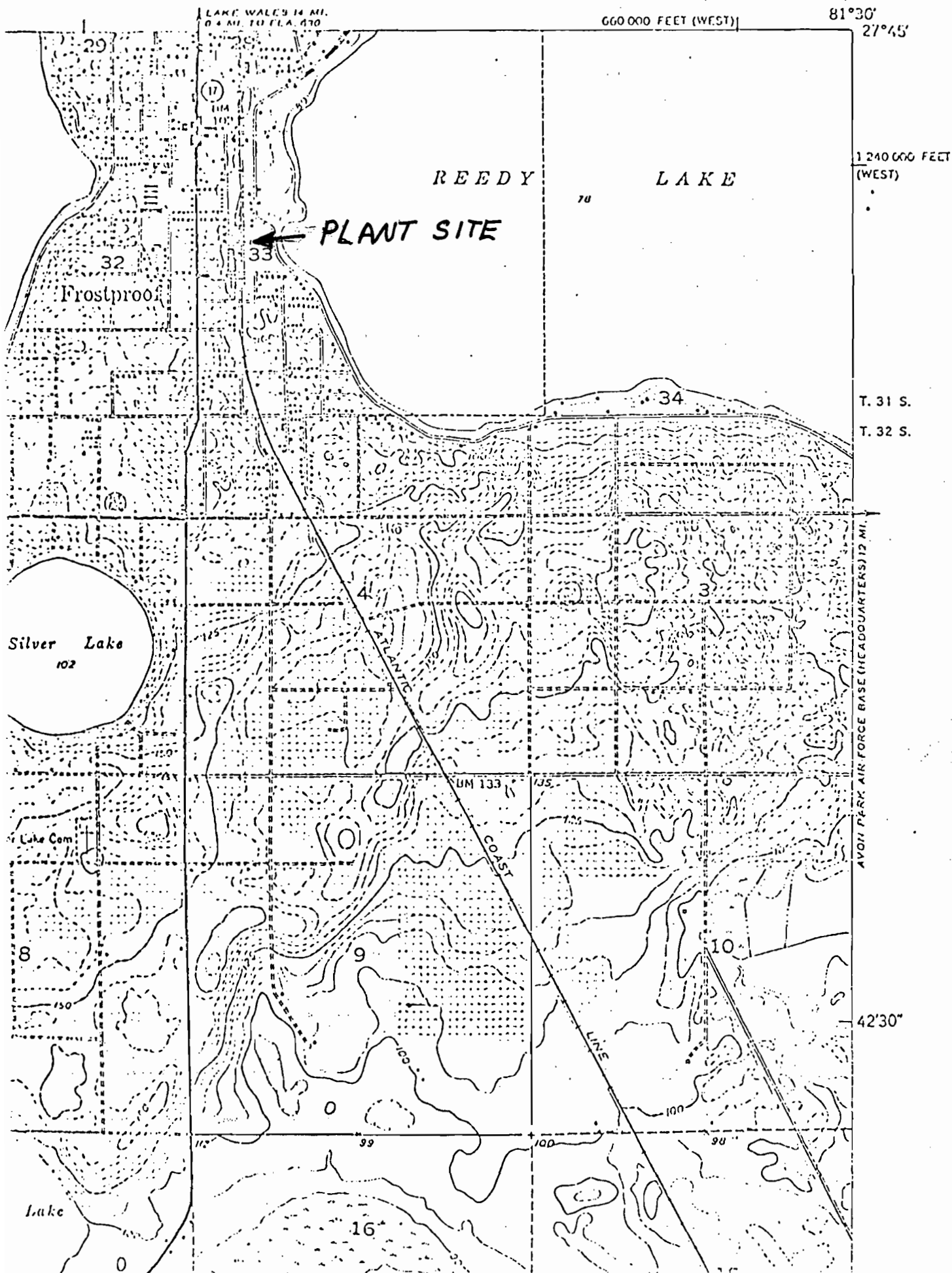
580 GAL/HR No.6 Fuel Oil

3000 HR/YR Operation

Emission factors from AP-42, Table 1.3-1.



FROSTPROOF QUADRANGLE  
FLORIDA  
7.5 MINUTE SERIES (TOPOGRAPHIC)



CITY OF  
FROST PROOF

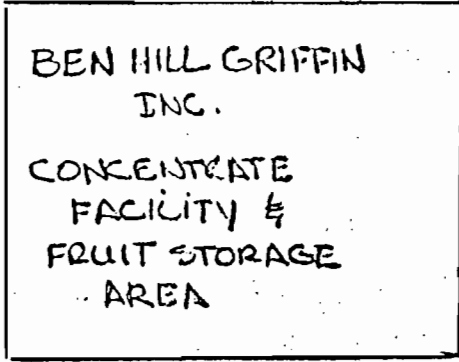
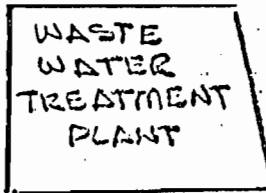
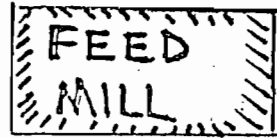


4<sup>th</sup> AVE.

AIR SOURCE

5<sup>th</sup> AVE.

U.S. ALT 27 - SENIC HWYWAY



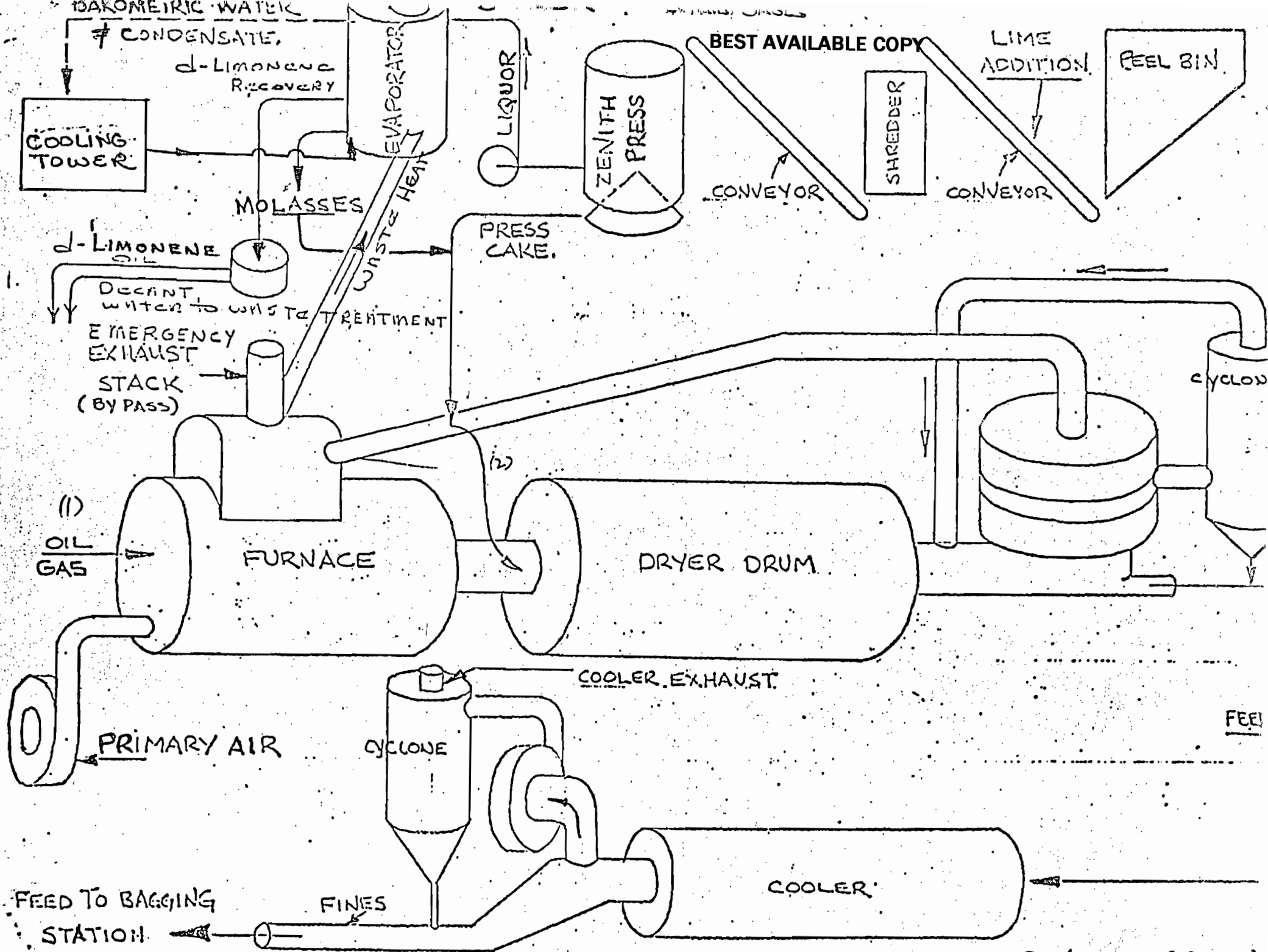
A.C.L. RR.

6<sup>th</sup> AVE

LAKE REEDY

PLANT SITE

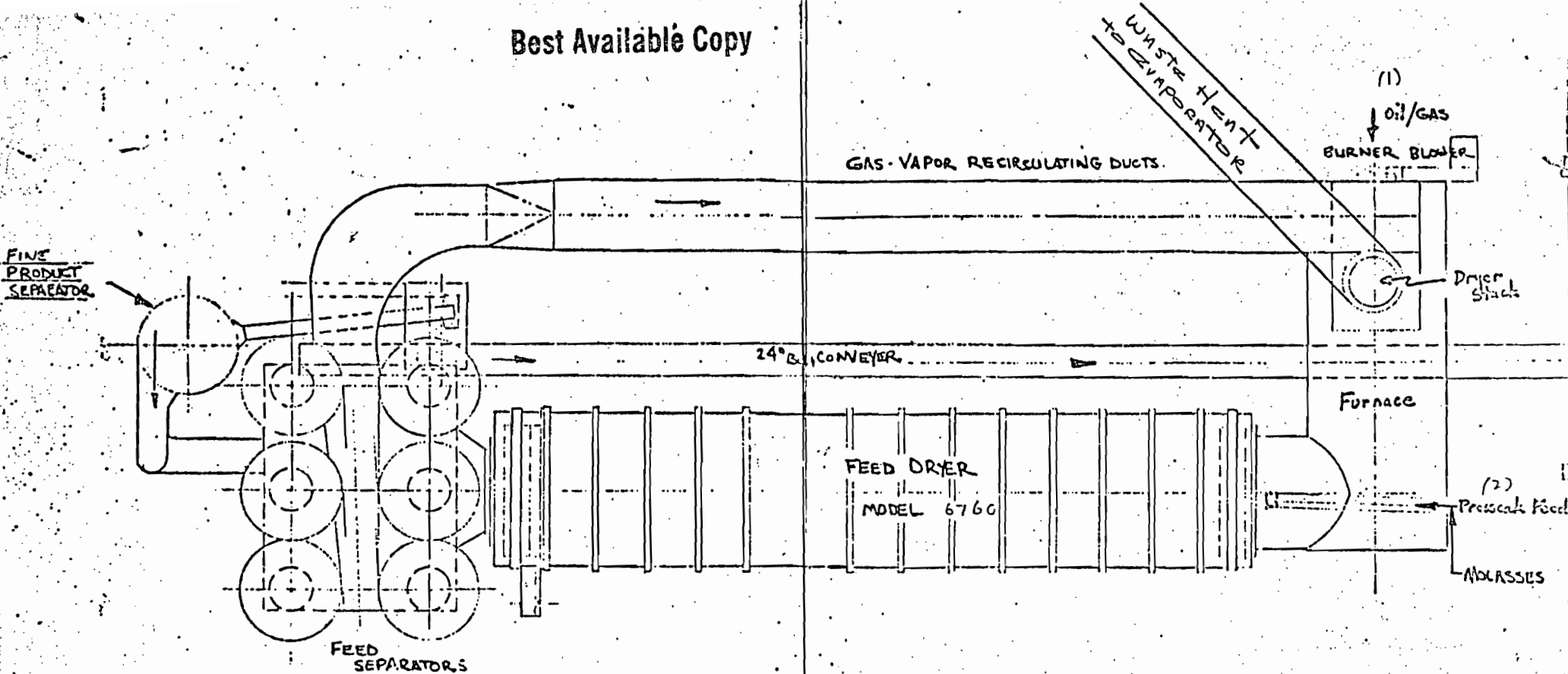
BEN HILL GRIFFIN INC.  
WASTE HEAT EVAPORATOR/  
PLANT SCHEMATIC  
FROST PROOF, FLA.



BEN HILL GRIFFI

PEEL MILL PROCESS SKI

Best Available Copy



SCALE  $\frac{1}{8}'' = 12'' (1 \text{ FOOT})$

BEN HILL GRIFFIN, INC.  
FROSTPROOF, FLORIDA 33843