Š	SENDER: Complete items 1, 2, 3 and 4.						
PS Form 3811, July 1983 447-845	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						
Vlu	ravailable. Consult postmaster for service(s) requested.	for tees and check bux(ws)					
1983	1. Show to whom, date a	nd address of delivery.					
447-	2. A Restricted Delivery.						
345	3. Article Addressed to: Mr. Bernard W. M	cBee, Jr.					
	TreeSweet Produc	ts Company, Inc.					
	100 Bell Avenue						
	Ft. Pierce, FL	33482					
	4. Type of Service:	Article Number					
	☐ Registered ☐ Insured ☐ COD ☐ Express Mail	P 408 531 330					
	Always obtain signature of ac DATE DELIVERED.	ddressee <u>or</u> agent and					
g	5. Signature - Addressee						
Ĭ.	X						
371	6. Signature – Agent	n .					
CR	7. Date of Delivery						
DOMESTIC RETURN RECEIP	12-29	-86					
2	8. Addressee's Address (ONL	Y if requested and fee paid)					
32							
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P 408 531 330

receipt for certified mail

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL

(See Reverse)	
Mr. Bernard W. Mc	Bee,
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12/22/86	٠,

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION NOTICE OF PERMIT

Mr. Bernard W. McBee, Jr. General Manager TreeSweet Products Company, Inc. 100 Bell Avenue Ft. Pierce, Florida 33482

December 19, 1986

Enclosed is Permit Number AC 56-117673 to TreeSweet Products Company, Inc. which authorizes the modification of an existing source to burn No. 6 fuel oil in Ft. Pierce, St. Lucie 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. Deputy Chief

Bureau of Air Quality
Management

Copies furnished to:

Wayne E. Griffin, P.E. Isidore Goldman

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on Wel, 22,1986 to the listed persons.

> 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.

Patricia G. Adams Dec. 22, 1946
Clerk Date

Final Determination

TreeSweet Products Company, Inc. St. Lucie County Ft. Pierce, Florida

Permit Number: AC 56-117673

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

Final Determination TreeSweet Products Company, Inc.: AC 56-117673 St. Lucie County

The construction permit application and attachments have been reviewed by the department. Public notice of the department's intent to issue was published in The News Tribune issue of November 7, 1986. The technical evaluation and preliminary determination were available for public inspection at the DER's Southeast Florida Subdistrict office and Bureau of Air Quality Management office.

There were no comments received. Therefore, it is recommended that the construction permit be issued as drafted.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM GOVE RNOR VICTORIA J. TSCHINKEL

SECRETARY

PERMITTEE: 1000 Bell Avenue

TreeSweet Products Co., Inc. P. O. Box 189 Ft. Pierce, Florida 33454

Permit Number: AC 56-117673 Expiration Date: April 30, 1987

County: St. Lucie

Latitude/Longitude: 27° 24' 11"N

80° 20' 24"W

Project: Peel Dryer/Waste Heat

Evaporator with an Associated Wet Scrubber Control System

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

For the modification to an existing source to fire new No. 6 fuel oil and natural gas as primary fuels and No. 2 fuel oil as a back-up, malfunction, and emergency fuel only. "New" means an oil which has been refined from crude oil and has not been used, and which may or may not contain additives. Maximum sulfur content for the No. 6 fuel oil shall not exceed 2.5% by weight.

The peel dryer/waste heat evaporator processes a maximum of 35 tons/hour of wet peel and is rated at 40 MMBtu/hr heat input. A wet scrubber system is used to control pollutant emissions.

The Standard Industrial Codes are: Industrial No. 2037-Frozen Juices, Fruit Juices and Vegetables. The Source Classification Codes are: Food and Agriculture-Fuel Fired Equipment-Process Heaters: 3-02-900-02 Residual Oil; 3-02-900-03 Natural Gas; and, 3-02-900-01 Distillate Oil (No. 2).

The UTM coordinates are Zone 17, 565.6 km East and 3031.3 km

The source shall be as reflected in the permit application, plans, documents, drawings, and amendments, except as otherwise noted on pages 5-8 of the Specific Conditions.

Attachments;

- 1. Application to Construct/Modify Air Pollution Sources, DER Form 17-2.202(1), received by DER's Southeast Florida Subdistrict office on March 17, 1986.
- Mr. Tim Powell's letter dated March 19, 1986. 2.
- Mr. C. H. Fancy's letter dated April 15, 1986. 3.
- Mr. John Fredrick Lang's letter with attachment, May 26, 1986.
- Mr. Wayne E. Griffin's letter with enclosures, May 29, 1986, and received June 2, 1986.

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.

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.

GENERAL CONDITIONS:

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

- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
- 10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or department rules.
- 11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.
- 12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)() Determination of Prevention of Significant Deterioration
 - () 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.

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. Maximum through-put rate of wet peel shall not exceed 35 tons per hour.
- 2. Operating hours shall not exceed 576 per month and 4320 annually.
- 3. Particulate matter (PM) emissions shall not exceed 30.6 lbs/hr, 8.8 tons per month, and 66.1 TPY, in accordance with FAC Rule 17-2.610(1).
- 4. Sulfur dioxide (SO_2) emissions shall not exceed 43.8 lbs/hr, 12.6 tons per month, and 94.5 TPY, based on a minimum 70% wet scrubber control system efficiency to remove SO_2 .

SPECIFIC CONDITIONS:

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5. Visible emissions (VE) shall be limited to "less than 20% opacity" in accordance with FAC Rule 17-2.610(2).

- 6. Annual compliance tests for PM, SO₂, and VE shall be performed using EPA Methods 5, 6, and 9, respectively, as referenced in FAC Rule 17-2.700 and pursuant to Appendix A, 40 CFR 60. At least 14 days prior notice shall be given the DER's Southeast Florida District. Compliance tests shall be conducted at 100% of the maximum rated throughput of wet peel. Subsequent compliance tests can be performed while the unit is operating at 90-100% of the rated throughput. Any alternate compliance test method shall require approval by the department.
- 7. In accordance with FAC Rule 17-2.610(3), no person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any source whatsoever, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrially related activities such as loading, unloading, storing or handling, without taking reasonable precautions to prevent such emissions. Reasonable precautions to be taken may include, but not be limited to the following:
- a. Paving and maintenance of roads, parking areas and yards.
- b. Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
- c. Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar sources.
- d. Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the source to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.
- e. Landscaping or planting or vegetation.
- f. Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
- g. Confining wet abrasive blasting where possible.
- h. Enclosure or covering of conveyor systems.
- 8. Objectionable odors shall not be allowed off plant property in accordance with FAC Rule 17-2.620(2).

SPECIFIC CONDITIONS:

2 3 3 2 2 3 3

- 9. The source is subject to the provisions of FAC Rule 17-2.250(1),(4),(5), and (6), Excess Emissions. When a report of excess emissions is required, the DER's Southeast Florida District office shall be notified.
- 10. According to FAC Rule 17-2.240, Circumvention, no person shall circumvent any air pollution control device, or allow the emission of air pollutants without the applicable air pollution control device operating properly.
- 11. Maximum new No. 6 fuel oil usage shall not exceed: 360 gallons per hour; 207,360 gallons per month; and 1,555.2 x 10³ gallons per year. Maximum sulfur content shall not exceed 2.5% by weight. Fuel sulfur content shall be analyzed using ASTM Method D-1552 upon request by the department. The permittee shall maintain a copy of the invoice for each delivery describing the volume and percent sulfur content, by weight, for a minimum of two years.
- 12. Maximum natural gas consumption shall not exceed 40,000 cubic feet per hour, 23.04 x 10^6 cubic feet per month, and 172.8 x 10^6 cubic feet per year.
- 13. No. 2 fuel oil can be used as an emergency, malfunction, and back-up fuel only. The department is to be notified when the unit is operating on this fuel and records shall be maintained on the volume used and time frame in which it was fired. The permittee shall maintain a copy of the invoice for each delivery describing the volume and percent sulfur content, by weight, for a minimum of two years.
- 14. Fuel flow meters shall be installed on the discharge lines of the fuel oil storage tanks.
- 15. The permittee shall submit an Annual Operating Report for each calendar year, on forms provided by the department, no later than March 1 of the following calendar year.
- 16. 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. (FAC Rule 17-4.09)

PERMITTEE:
TreeSweet Products Co., Inc.

Permit Number: AC 56-117673 Expiration Date: April 30, 1987

SPECIFIC CONDITIONS:

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 test results and Certificate of Completion, to the DER's Southeast Florida District office 90 days prior to the expiration date of the construction permit. 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. (FAC Rules 17-4.22 and 17-4.23)

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. (FAC Rule 17-4.10)

Issued this 17th day of Dec, 1986

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

____ pages attached.

State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION



Interoffice Memorandum

	FOR ROUTING	FOR ROUTING TO OTHER THAN THE ADDRESSEE			
	То:	LOCTN:			
inkel	То:	Loctn:			
THYET	То:	Loctn:			
	FROM:	DATE:			

TO: Victoria J. Tschinkel

FROM: Clair Fancy

DATE: December 16, 1986

SUBJ: Approval of Air Construction Permit

Attached for your approval and signature is one air construction permit to TreeSweet Products Company, Inc. to modify an existing source to burn new No. 6 fuel oil at the applicant's facility in Ft. Pierce, St. Lucie County, Florida.

Day 90, after which the permit would be issued by default, is December 22, 1986.

The Bureau recommends your approval and signature.

CF/pa

Attachment

Check Sheet

Perm PSD	pany Name: Number: Number: nit Engineer:	het Thees	weit	Products Co, Inc
App	lication: Initial Application ☐ Incompleteness Lett ☐ Responses ☐ Waiver of Department ☐ Department Respon	ent Action	Cross Ro	eferences:
Inter Date of the second secon	Intent to Issue Notice of Intent to Issue Technical Evaluation BACT or LAER Deterr Unsigned Permit Correspondence with: □ EPA □ Park Services □ Other Proof of Publication □ Petitions - (Related □ Waiver of Department	nination to extensions, hea	rings, etc.)
Fina	Petermination: Final Determination	mination		
Post	Permit Corresponden Extensions/Amenda Other		ns	

THE NEWS TRIBUNE

Published Seven Days A Week Fort Pierce, St. Lucie County, Florida

STATE OF FLORIDA COUNTY OF ST. LUCIE

Before the undersigned authority personally appeared James J. McMillen or Kathleen K. LeClair, who on oath says that he/she is Publisher. Publisher's Secretary of The News Tribune, a daily newspaper published at Fort Pierce in St. Lucie County, Florida; that the attached copy of advertisement, being a legal notice in the matter of DER application was published in said newspaper in the issues of...... 9/23/86

Affiant further says that the said News Tribune is a newspaper published at Fort Pierce, in said St. Lucie County, Florida, and that the said newspaper has heretofore been continuously published in said St. Lucie County, Florida, each day and has been entered as second class mail matter at the post office in Fort day and has been entered as second class mail matter at the post office in Fort Pierce, in said St. Lucie 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 and discount, rebase, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

Sworp to and subscribed before me

23rd

SEP

PUBL

NOTARY PUBLIC STATE OF FLORIDA Notary Public HY COMMISSION EXP. DEC 13,1987

BOCCED THRU GENERAL INS. UHD.

No. 05429
BEFORE THE STATE
OF FLORIDA
DEPARTMENT OF
ENVIRONMENTAL
REGULATION
In the Matter of Application

for Permit by:
TreeSweet Products Com-

Treesweer Flourist pany, Inc. 1000 Bell Avenue Ft. Pierce, Florida 33482 DER File No. AC 56-117673

INTENT TO ISSUE INTENT TO ISSUE
The Department of Environmental Regulation hereby gives notice of its intent to issue a permit (copy attached) for the proposed project as detailed in the application specified above. The Department is issuing this intent to issue for the reasons stated in the attached Technical Evaluation and Preliminary Determination.

attached Technical Evaluation and Preliminary
Determination.
The applicant, Treesweet
Products Company, Inc.,
applied on March 17, 1986,
to the Department of Environmental Regulation for
a permit to use No. 6 fuel oil
In. Its existing peel
dry.er/waste heat
evaporator at the applicant's existing facility in
Ft. Pierce, St. Lucie County, Florida.

The Department has per-

The Department has per The Department has permitting jurisdiction under Chapter 403, Florida Statutes and Florida Administrative Code Rules 17 and 17-4. The project is not exempt from permitting procedures. The Department has determined that an air construction permit was needed for the proposed work.

ed 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 application. 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 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. Fallure 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 petition for an administrative proceeding (hearing) is filled pursuant to the provisions of Section 120.57, F.S. A person whose substantial interests are affected by the Department's

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 enclosed) and be filed with (received by) the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32301-8241. Peti-

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tions filed by the permit ap-plicant must be filed within fourteen (14) days of receipt of this intent. Petireceipt 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 right such person may have to request an ad-ministrative determination ministrative 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, Executed in Talianassee, Florida.
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENT OF ENVIRONMENT A L REGULATION (S) C. H. Fancy, P.E. Deputy Chief Bureau of Air Quality Management Management PUBLISH: September 23,

DEPARTMENT OF ENVIRONMENTAL REGULATION

ROUTING AND	ACTION	NO
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Bruce Mitchell	10/2/8	Date
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THE NEWS TRIBUNE

Published Seven Days A Week Fort Pierce, St. Lucie County, Flarida

DER

F+. Plenee

STATE OF FLORIDA

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COUNTY OF STATOCIE
Before the undersigned authority personal appeared
James J. McMillen or Kathleen K. LeClair, who on oath
says that he/she is Publisher, Publisher's Secretary of
says that he/she is Publisher, Publisher's Secretary of The News Tribune, a daily newspaper published at Porti
Pierce in St. Lucie County, Florida; that the attached
copy of advertisement, being a legal notice
n the matter of DER Intent

Affiant further says that the said News Tribune is a newspaper published at Fort Pierce, in said St. Lucie County, Florida, and that the said newspaper has heretofore been continuously published in said St. Lucie County, Florida, each heretofore been continuously published in said St. Lucie County, Florida, each day and has been entered as second class mail matter at the post office in Fort Pierce, in said St. Lucie 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 and discount, repair commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

Sworn to and subscribed before me

was published in said newspaper in the issues of...... 11/7/86

5 This 7 C. day of November

(SEAL)

Notary Public

NOTARY PUBLIC STATE OF FLORIDA MY COMMISSION EXP. DEC 13,1987 BONDED THRU GENERAL INS. UND.

Best Available Copy

No. 00261
State of Florida
Department of
Environmental
Regulation
Notice of Intent
The Department gives
notice of its intent to issue
permit to TreeSweet Products Company, Inc. to us
No. 6 fuel oil in its existingeel dryer/waste head evaporator. An associated wet scrubber system will be used to control both permit to used to control both permit dioxide emission. The permit could be mission. The permit for the permit for the permit give be some permitting for the 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 filled (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Twin Towers

ministrative Code, and must be filled (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Twin Towers Office Building, Taliahassee, Florida 32301, within fourteen (14) days of publication of this notice. Failure to file a petition within this time period constitutes a walver 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 discovered 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 Administrative Parkway, Taliahassee, 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, Taliahassee, Florida 32301. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such tervene 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:

at:
Dept. of Environmental
Regulation
Bureau of Air Quality
Management
2600 Blair Stone Road Zoub Bair Stone Road
Tallahassee, Florida 32301
Dept. of Environmental
Regulation
Southeast Florida Subdistrict 2745 Southeast Morningside Blvd. Port 33452 St. Lucie, Florida

Any person may send written comments on the proposed action to Mr. Bill Thomas at the department's Tallahassee address. All comments malled within 14 days of the publication of this notice will be considered in the department's final determination.
PUBLISH: November 7, 1986.

est Available Copy THE NEWS TRIBUNE

> Published Seven Days A Week Fort Pierce, St. Lucie County, Florida

STATE OF FLORIDA COUNTY OF ST. LUCIE

Before the undersigned authority personally appeared James J. McMillen or Kathleen K. LeClair, who on oath says that he/she is Publisher, Publisher's Segretary The News Tribune, a daily newspaper published at John Pierce in St. Lucie County, Florida; that the attached copy of advertisement, being a legal notice

in the matter of DER Intent

was published in said newspaper in the issues of...... 11/7/86

Affiant further says that the said News Tribune is a newspaper published at Fort Pierce, in said St. Lucie County, Florida, and that the said newspaper has heretofore been continuously published in said St. Lucie County, Florida, each day and has been entered as second class mail matter at the post office in Fort Pierce, in said St. Lucie County, Florida, for a period of one year next prerefere, in said St. Eucle County, rollda, 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. Sworn to and subscribed before me

7th Aday of Novembe

Notary Public

NOTARY PUBLIC STATE OF FLORIDA

MY COMMISSION EXP. DEC 13,1987 BONDED THRU GENERAL INC. UMB.

State of Florida Department of Environmental Regulation

Regulation
Notice of Intent
The Department gives
notice of its intent to issue
permit to TreeSweet Pro
ducts Company, Inc. to us
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Persons whose substantial interests are affected by the Department's proposed permitting decision may, petition forward administrative determination (hearling) in accordance with Section 120.57, Florida Statutes. The petition must conform forward for formation for must conform forward for for forward for forward for forward for forward for forward for for forward for forwa

day, except legal holidays, at:
Dept of Environmental Regulation
Bureau of Air Quality Management 2600 Blair Stone Road Tallahassee, Florida 32301 Dept of Environmental Regulation
Southeast Florida Subdistrict 2745 Southeast Margin 1984 2745 Southeast Morningside

2745 Southeast Morningside
Blvd
Port, St. Lucie, Florida
33452
Any person may send
written comments on the
proposed action to Mr. Bill
Thomas at the department's Tallahassee address. All comments malled within 14 days of the
publication of this notice
will be considered in the
department's final determination.

mination. PUBLISH: November 7,

P 408 532 032

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL

(See Reverse)

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-[Sent to					
ļ	Mr. Bernard W.	McBee				
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PS	SENDER: Complete items 1, 2, 3 and 4.		
PS Form 3811, July 1983 447-845	Put your address in the "RET reverse side. Failure to do this being returned to you. The re you the name of the person d delivery. For additional fees t available. Consult postmaster for service(s) requested.	URN TO" space on the swill prevent this card from sturn receipt fee will provide elivered to and the date of the following services are for fees and check box(es)	
83 447-	 Show to whom, date a Restricted Delivery. 	nd address of delivery.	
45	3. Article Addressed to: Mr. Bernard W. TreeSweet Produ 1000 Bell Avenu Ft. Pierce, Flo	ucts Company, Inc. ue	
	4. Type of Service: Régistered Insured COD Express Mail	Article Number P 408 532 032	
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STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

August 4, 1986

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Bernard W. McBee, Jr. General Manager TreeSweet Products Company, Inc. 100 Bell Avenue Ft. Pierce, Florida 33482

Dear Mr. McBee:

Attached is one copy of the Technical Evaluation and Preliminary Determination, and proposed permit to use No. 6 fuel oil in your existing peel dryer/waste heat evaporator at your facility in Ft. Pierce, St. Lucie 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/pa

Attachments

cc: Wayne E. Griffin, P.E.
Tim Powell

State of Florida Department of Environmental Regulation Notice of Intent

The Department gives notice of its intent to issue a permit to TreeSweet Products Company, Inc. to use No. 6 fuel oil in its existing peel dryer/waste heat evaporator. An associated wet scrubber system will be used to control both particulate matter and sulfur dioxide emission. The proposed project will be located at the TreeSweet Products Company's existing facility in Ft. Pierce, St. Lucie County, Florida. A determination of best available control technology (BACT) was not required.

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative determination (hearing) in accordance with Section 120.57, F orida 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 32301, 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 32301. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes.

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

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

Dept. of Environmental Regulation Southeast Florida Subdistrict 2745 Southeast Morningside Blvd. Port St. Lucie, Florida 33452

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

BEFORE THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of Application for Permit by:

TreeSweet Products Company, Inc. 1000 Bell Avenue Ft. Pierce, Florida 33482

DER File No. AC 56-117673

INTENT TO ISSUE

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

The applicant, Treesweet Products Company, Inc., applied on March 17, 1986, to the Department of Environmental Regulation for a permit to use No. 6 fuel oil in its existing peel dryer/waste heat evaporator at the applicant's existing facility in Ft. Pierce, St. Lucie 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 was 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 application. 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 permit.

The Department will issue the permit with the attached conditions unless petition for an administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, 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 32301-8241. 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

Bernard W. McBee, Jr. Wayne E. Griffin, P.E. Tim Powell

Copies furnished to:

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 4, 1986.

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.

Patricia G. Adams Aug. 4, 1986

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.

1

of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32301. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to an administrative determination (hearing) under Section 120.57, F.S.

(4) Notice to substantially affected persons concerning applications for Department permits is an essential and integral part of the state environmental licensing process. Therefore, no application for a permit for which publication of notice is required shall be granted until and unless proof of publication of Notice is furnished to the appropriate Department permitting office.

(5)(a) Any applicant or person benefiting from the Department's action may elect to publish notice of proposed agency action in the manner provided by subsection (2) or (3). Any person who elects to publish notice of proposed agency action, upon presentation of proof of publication to the Department, prior to final agency action, shall be entitled to the same benefits under this rule as a person who is required to publish notice of proposed agency action. Since persons substantial interests affected by a Department decision on a permit application may petition for an administrative proceeding within fourteen (14) days after receipt of notice and since, unless notice is given or published as prescribed in this rule, receipt of notice can occur at any time, the applicant or persons benefiting from Department's action cannot justifiably rely on the finality of

the Department's decision without the notice having been duly given or published.

- (b) The notices required by this rule may be combined with other notices required by the Department pursuant to Chapter 403, 376, or 253, F.S., or Chapter 17, FAC.
- (c) The provisions of this section shall also apply to the permitting of hazardous waste facilities, but only to the extent it is consistent with Chapter 17-30, Part IV, FAC. Whenever Chapter 17-30, Part IV, FAC, provides for a different time or notice procedure than that set forth in this section the time and notice provisions of Chapter 17-30 shall govern.
- (6) Failure to publish any notice of application, notice of proposed agency action, or notice of agency action required by the Department shall be an independent basis for the denial of a permit. Specific Authority: 120.53, 403.0876, 403.815, F.S. Law Implemented: 120.53, F.S. History: New 9-20-79, Amended 4-28-81, Transferred from 17-1.62 and Amended 6-1-84.

17-103.155 Petition for Administrative Hearing; Waiver of Right to Administrative Proceeding.

(1)(a) Any person whose substantial interests may be affected by proposed or final agency action may file a petition for administrative proceeding. A petition shall be in the form required by this Chapter and Chapter 28-5, FAC, and shall be filed (received) in the Office of General Counsel of the Department within fourteen (14) days of receipt of notice of proposed agency action or within fourteen (14) days of receipt of notice of

agency action whenever there is no public notice of proposed agency action. In addition to the requirements of Rule 28-5.201, FAC, the Petition must specify the county in which the project is or will be located.

- (b) Failure to file a petition within fourteen (14) days of receipt of notice of agency action or fourteen (14) days of receipt of notice of proposed agency action, whichever notice first occurs, shall constitute a waiver of any right to request an administrative proceeding under Chapter 120, F.S.
- (c) When there has been no publication of notice of agency action or notice of proposed agency action as prescribed in Rule 17-103.150, FAC, a person who has actual knowledge of the agency action or has knowledge which would lead a reasonable person to conclude that the Department has taken final agency action, has a duty to make further inguiry within fourteen (14) days of obtaining such knowledge by contactthe Department to ascertain ing whether action has occurred. Department shall upon receipt of such an inquiry, if agency action has occurred, promptly provide the person with notice as prescribed by Rule 17-103.150, FAC. Failure of the person to make inquiry with the Department within fourteen (14) days after obtaining such knowledge may estop the person from obtaining an administrative proceeding on the agency action.
- (2)(a) "Receipt of notice of agency action" means receipt of written notice of final agency action, as prescribed by Department rule, or the publication, pursuant to Department rule, of notice of final agency action, whichever first

occurs.

- (b) "Receipt of notice of proposed agency action" means receipt of written notice (such as a letter of intent) that the Department proposes to take certain action, or the publication pursuant to Department rule of notice of proposed agency action, whichever first occurs.
- (3) Notwithstanding any other provision in this Chapter, should a substantially affected person who fails to timely request a hearing under Section 120.57, F.S., administratively appeal the final Department action or order, the record on appeal should be limited to:
- (a) the application, and accompanying documentation submitted by the applicant prior to the issuance of the agency's intent to issue or deny the requested permit.
- (b) the materials and information relied upon by the agency in determining the final agency action or order;
- (c) any notices issued or published; and
- (d) the final agency action or order entered concerning the permit application.
- (4) In such cases where persons do not timely exercise their rights accorded by Section 120.57(1), Florida Statutes, the allegations of fact contained in or incorporated by the final agency action shall be deemed uncontested and true, and appellants may not dispute the truth of such allegations upon subsequent appeal.
- (5) Any applicant may challenge the Department's request for additional information by filing with the Office of General Counsel an appropriate petition for administrative proceeding pursuant to Section 120.60, F.S., following receipt by

the applicant of the Department's notification, pursuant to Section 403.0876, F.S., that additional information is required. Specific Authority: 120.53, 403.0876, 403.815, F.S. Law Implemented: 120.53, F.S. History: New 9-20-79, Amended 4-28-81, Transferred from 17-1.62 and Amended 6-1-84.

17-103.160 Uniformity in Approval and Denial of Applications for Department Permits and Certifica-To the extent possible and tions. consistent with the public interest, the Department approves and denies applications for permits and certifications on a uniform and consistent basis. Final Department actions on applications for permits and certifications shall be consistent with prior Department actions, unless deviation therefrom is explained by the Department in writing or the hearing officer who submits a recommended order to the Department for final agency action in accordance with Section 120.57, Florida Statutes.

Specific Authority: 120.53(1), F.S. Law Implemented: 120.53(1), 120.68(12), F.S. History: New 2-6-78, Transferred from 17-1.63, 6-1-84.

17-103.170 Designation, Preparation and Transmittal of Record for Administrative Appeals.

When any Department action or order is the subject of an administrative appeal under Chapter 17-103, Part II, FAC, the following requirements shall apply:

(1) Designation of Record. Within fifteen (15) days of rendition of the Department's final order, the appellant shall designate

to the Department, in writing, with copies to other parties, those documents or things under the control of or in the possession of the Department which the appellant desires to have included in the record, and which were received or considered in the Department proceeding below. If a proceeding was reported by mechanical recording devices, appellant shall designate those portions of the proceeding for which it requires written transcription or tapes for transcription. Any other party may designate other portions of the record in the manner provided herein. Such cross-designation shall be filed with the Department, with copies provided other parties, within seven (7) days after receipt of the designation by the appellant.

- (2) Original Record. The Department shall thereupon include in the record all of the designated portions of the original papers and exhibits in the proceedings or matter from which administrative appeal is taken, together with a copy of any such parts of the proceedings as were stenographically reported or transcribed from tapes, and as have been designated by the parties and certified by a notary public, the reporter, other officer or inclusion in the record on appeal or review, and certified copies of the order, if any, of which review is sought. The Department may, at its substitute certified discretion, copies for original papers or documents in its possession.
- (3) Preparation of Record. Upon tender or deposit by appellant of the estimated cost of preparation, the Department shall prepare the record in accordance with the designations of the parties. The cost of preparation, and reproduction,

Technical Evaluation and Preliminary Determination

TreeSweet Products Company, Inc. St. Lucie County Ft. Pierce, Florida

Permit Number: AC 56-117673

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

I. Project Description

A. Applicant

TreeSweet Products Company, Inc. 1000 Bell Avenue Ft. Pierce, Florida 33482

B. Project Description

The applicant proposes to use No. 6 fuel oil (FO) in its existing peel dryer/waste heat evaporator as a primary fuel when it is financially advantageous. The No. 6 FO will have a maximum sulfur content of 2.5% by weight. The existing source is currently firing natural gas as the primary fuel with diesel fuel being used only as a back-up, malfunction, and emergency fuel.

The Standard Industrial Codes for the source are: Industrial No. 2037 - Frozen Juices, Fruit Juices and Vegetables. The Source Classification Codes for the source are: Food and Agriculture - Fuel Fired Equipment - Process Heaters: 3-02-900-02 Residual Oil; 3-02-900-03 Natural Gas; 3-02-900-01 Distillate Oil (No. 2).

The UTM coordinates are zone 17, 565.6 km East and 3031.3 km North.

C. Process and Controls

The existing peel dryer/waste heat evaporator are integral units and process 35 tons per hour (TPH) of wet peel. An associated wet scrubber system will be used to control both particulate matter (PM) and sulfur dioxide (SO₂).

II. Rule Applicability

The proposed project is subject to preconstruction review under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (FAC) Rules 17-2 and 17-4.

The application package was deemed complete on June 2, 1986.

The existing facility is located in St. Lucie County, which is an area designated attainment for all of the criteria pollutants. The existing facility is a minor facility pursuant to FAC Rule 17-2.100(115).

The projected potential pollutant emissions associated with the peel dryer/waste heat evaporator are exhibited in the following table:

Table 1

	Potential Pollutant Emissions				(TPY)
Source	PM	SO ₂	NOx	CO	NMHC
Peel Dryer/Waste Heat					
Evaporator	66.1	94.5	93.3	3.9	0.2

Note:

- o Annual hours of operation are 4320.
- o Maximum through-put rate is 35 TPH of wet peel
- o Maximum No.6 FO consumption is 360 gals/hr.
- o PM: emissions are based on Process Weight Table.

SO₂: emissions are based on stoichiometric calculations using as density 8.108 lbs/gal, 2.5% sulfur content by weight, and a scrubber system control efficiency of 70%.

NOx: emissions are based on AP-42 Emission Factors, Table 1.3-1 formula of 1b $NO_2/10^3$ gals = 22 + 400(N)², where N = 0.5% by weight.

CO: emissions are based on AP-42 Emission Factors, Table 1.3-1 formula of 55 lbs/ 10^3 gals.

NMHC: emissions are based on AP-42 Emission Factors, Table 1.3-1 formula of 0.28 $1b/10^3$ gals.

Based on the table, the proposed project would be a minor modification to a minor facility. Therefore, the proposed project's emissions shall be subject to review pursuant to FAC Rule 17-2.520, Sources Not Subject to Prevention of Significant Deterioration or Nonattainment Requirements.

The source's allowable PM emission limiting and performance standards shall be in accordance with FAC Rules 17-2.610, General Particulate Emission Limiting Standards. The SO₂ allowable emission limiting and performance standards shall be in accordance with what was requested by the applicant and is acceptable by the department, which is placing a minimum scrubber control efficiency for SO₂ at 70%.

In accordance with FAC Rule 17-2.610(1), the source's allowable emissions shall begin accordance with the Process Weight Table, Table 610-1.

The source shall be subject to FAC Rule 17-2.610(2), General Visible Emissions Standard.

The source shall be subject to FAC Rule 17-2.610(3), Unconfined Emissions of Particulate Matter.

According to FAC Rule 17-2.620(2), no person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An objectionable odor is defined as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance according to FAC Rule 17-2.100(130). Therefore, objectionable odors shall not be allowed off plant property.

No person shall circumvent any air pollution control device, or allow the emission of air pollutants without the applicable air pollution control device operating properly in accordance with FAC Rule 17-2.240, Circumvention.

The source is subject to the provisions of FAC Rule 17-2.250(1), (4), (5), and (6), Excess Emissions.

Testing verification shall be required to demonstrate compliance with the allowable emission limits. For PM, the compliance test method shall be EPA Method 5 in accordance with 40 CFR 60, Appendix A. For SO₂, the compliance test method shall be EPA Method 6 in accordance with 40 CFR 60, Appendix A. For visible emissions (VE), the compliance test method shall be EPA Method 9 in accordance with 40 CFR 60, Appendix A. If any other compliance test method is to be substituted, approval by the department is required.

Fuel sulfur analysis shall be required using ASTM Method D-1552 or other approved method by the department.

An annual operating report will be required and shall be submitted to the DER's Southeast Florida Subdistrict office accounting for the annual consumption of fuels and shall be submitted no later than March 1 of the following calendar year.

III. Summary of Emissions and Air Quality Analysis

A. Emission Limitations

The regulated pollutant emissions from the facility are PM, SO₂, and VE. The following table will reflect the maximum allowable pollutant emissions for the peel dryer/waste heat evaporator:

4

Table 2

_	Maximum Allowable Pollutant Emissions					
Source	PM lbs/hr	TPM	TPY	SO ₂ lbs/hr	TPM	TPY
Peel Dryer/Waste Heat Evaporator	30.6	8.8		43.8	12.	6
modo Ziapo-doo			66.1		•	94.5
	Visible	Emis	sions	less than	20%	opacity

- Note: o TPM tons per month
 - o Based on 576 hrs/mth and 4320 hrs/yr.
 - o Maximum through-put rate is 35 TPH of wet peel
 - o Assume 70% minimum removal efficiency of SO2 by the scrubber control system
 - o Maximum No. 6 FO is 360 gals/hr; the No. 6 FO shall be "an oil which has been refined from crude oil and has not been used, and which may or may not contain additives."

The permitted pollutant emissions are in compliance with all applicable requirements of FAC Rules 17-2 and 17-4.

Air Quality Analysis В.

Based on the emissions, an air quality analysis was not required.

IV. Conclusion

Allowing the use of No. 6 FO as a fuel could benefit the company economically. It is noted that the potential NOx ' emissions, at the maximum FO consumption and annual hours of operation, are 93.3 TPY and very close to making the source major (based on AP-42 Emission Factors Table 1-3.1 formula). However, the facility is not on the list of Table 500-1 and would require emissions in excess of 250 TPY before being subject to PSD (prevention of significant deterioration) review.

No. 2 FO and natural gas will also be used as fuels for the source, with the No. 2 FO as a back-up, malfunction, and emergency fuel only. The applicant has said that there are existing separate fuel tanks for keeping the fuel oils separate.

The permitted pollutant emissions from the proposed project should not cause any violation of Florida's ambient air quality standards.

The General and Specific Conditions listed in the proposed permit (attached) will assure compliance with all applicable requirements of FAC Rules 17-2 and 17-4.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL

PERMITTEE: TreeSweet Products Co., Inc. P. O. Box 189

1000 Bell Avenue

Ft. Pierce, Florida 33454

Permit Number: AC 56-117673
Expiration Date: April 30, 1987

County: St. Lucie

Latitude/Longitude: 27° 24' 11"N

80° 20' 24"W

Project: Peel Dryer/Waste Heat

Evaporator with an Associated Wet Scrubber Control System

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

For the modification to an existing source to fire new No. 6 fuel oil and natural gas as primary fuels and No. 2 fuel oil as a back-up, malfunction, and emergency fuel only. "New" means an oil which has been refined from crude oil and has not been used, and which may or may not contain additives. Maximum sulfur content for the No. 6 fuel oil shall not exceed 2.5% by weight.

The peel dryer/waste heat evaporator processes a maximum of 35 tons/hour of wet peel and is rated at 40 MMBtu/hr heat input. A wet scrubber system is used to control pollutant emissions.

The Standard Industrial Codes are: Industrial No. 2037-Frozen Juices, Fruit Juices and Vegetables. The Source Classification Codes are: Food and Agriculture-Fuel Fired Equipment-Process Heaters: 3-02-900-02 Residual Oil; 3-02-900-03 Natural Gas; and, 3-02-900-01 Distillate Oil (No. 2).

The UTM coordinates are Zone 17, 565.6 km East and 3031.3 km North.

The source shall be as reflected in the permit application, plans, documents, drawings, and amendments, except as otherwise noted on pages 5-8 of the Specific Conditions.

Attachments;

- 1. Application to Construct/Modify Air Pollution Sources, DER Form 17-2.202(1), received by DER's Southeast Florida Subdistrict office on March 17, 1986.
- 2. Mr. Tim Powell's letter dated March 19, 1986.
- 3. Mr. C. H. Fancy's letter dated April 15, 1986.
- 4. Mr. John Fredrick Lang's letter with attachment, May 26, 1986.
- 5. Mr. Wayne E. Griffin's letter with enclosures, May 29, 1986, and received June 2, 1986.

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.

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.

GENERAL CONDITIONS:

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

- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
- 10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or department rules.
- 11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.
- 12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 () Determination of Prevention of Significant Deterioration (PSD)
 - () Compliance with New Source Performance Standards.
- 14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

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. Maximum through-put rate of wet peel shall not exceed 35 tons per hour.
- 2. Operating hours shall not exceed 576 per month and 4320 annually.
- 3. Particulate matter (PM) emissions shall not exceed 30.6 lbs/hr, 8.8 tons per month, and 66.1 TPY, in accordance with FAC Rule 17-2.610(1).
- 4. Sulfur dioxide (SO_2) emissions shall not exceed 43.8 lbs/hr, 12.6 tons per month, and 94.5 TPY, based on a minimum 70% wet scrubber control system efficiency to remove SO_2 .

SPECIFIC CONDITIONS:

- 5. Visible emissions (VE) shall be limited to "less than 20% opacity" in accordance with FAC Rule 17-2.610(2).
- 6. Annual compliance tests for PM, SO₂, and VE shall be performed using EPA Methods 5, 6, and 9, respectively, as referenced in FAC Rule 17-2.700 and pursuant to Appendix A, 40 CFR 60. At least 14 days prior notice shall be given the DER's SE Florida Subdistrict. Compliance tests shall be conducted at 100% of the maximum rated throughput of wet peel. Subsequent compliance tests can be performed while the unit is operating at 90-100% of the rated throughput. Any alternate compliance test method shall require approval by the department.
- 7. In accordance with FAC Rule 17-2.610(3), no person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any source whatsoever, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrially related activities such as loading, unloading, storing or handling, without taking reasonable precautions to prevent such emissions. Reasonable precautions to be taken may include, but not be limited to the following:
- a. Paving and maintenance of roads, parking areas and yards.
- b. Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
- c. Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar sources.
- d. Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the source to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.
- e. Landscaping or planting or vegetation.
- f. Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
- q. Confining wet abrasive blasting where possible.
- h. Enclosure or covering of conveyor systems.
- 8. Objectionable odors shall not be allowed off plant property in accordance with FAC Rule 17-2.620(2).

SPECIFIC CONDITIONS:

- 9. The source is subject to the provisions of FAC Rule 17-2.250(1),(4),(5), and (6), Excess Emissions. When a report of excess emissions is required, the DER's Southeast Florida Subdistrict office shall be notified.
- 10. According to FAC Rule 17-2.240, Circumvention, no person shall circumvent any air pollution control device, or allow the emission of air pollutants without the applicable air pollution control device operating properly.
- 11. Maximum new No. 6 fuel oil usage shall not exceed: 360 gallons per hour; 207,360 gallons per month; and 1,555.2 x 10³ gallons per year. Maximum sulfur content shall not exceed 2.5% by weight. Fuel sulfur content shall be analyzed using ASTM Method D-1552 upon request by the department. The permittee shall maintain a copy of the invoice for each delivery describing the volume and percent sulfur content, by weight, for a minimum of two years.
- 12. Maximum natural gas consumption shall not exceed 40,000 cubic feet per hour, 23.04 x 10^6 cubic feet per month, and 172.8 x 10^6 cubic feet per year.
- 13. No. 2 fuel oil can be used as an emergency, malfunction, and back-up fuel only. The department is to be notified when the unit is operating on this fuel and records shall be maintained on the volume used and time frame in which it was fired. The permittee shall maintain a copy of the invoice for each delivery describing the volume and percent sulfur content, by weight, for a minimum of two years.
- 14. Fuel flow meters shall be installed on the discharge lines of the fuel oil storage tanks.
- 15. The permittee shall submit an Annual Operating Report for each calendar year, on forms provided by the department, no later than March 1 of the following calendar year.
- 16. 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. (FAC Rule 17-4.09)

PERMITTEE:
TreeSweet Products Co., Inc.

Permit Number: AC 56-117673 Expiration Date: April 30, 1987

SPECIFIC CONDITIONS:

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 test results and Certificate of Completion, to the DER's Southeast Florida Subdistrict office 90 days prior to the expiration date of the construction permit. 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. (FAC Rules 17-4.22 and 17-4.23)

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. (FAC Rule 17-4.10)

	Issued thisday of, 19
	STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION
	VICTORIA J. TSCHINKEL, Secretary
pages attached.	

GulfCoast Engineering

CONSULTING ENGINEERS

POST OFFICE BOX 1786 • BRANDON, FLORIDA 3351 613 685-9727

July 29, 1986

Florida Department of Environmental Regulation 2600 Blair Stone Road Tallahassee, Florida 32301

ATTN: C.H. Fancy, P.E.

RE: TreeSweet Products Company

Dear Mrs. Fancy:

Pursuant to our telephone conversation with Bruce Mitchell of your staff we would like to permit the feedmill/dryer/wasteheat evaporator for use on #6 fuel oil (AC56-117673). Additionally, we would like to withdraw the two (2) boiler permits at the referenced facility (AC56-117649 and AC56-117671).

Should you have any questions please contact me at my office at your earliest convenience.

Sincerely.

Wayne E. Griffin,

President

WEG/pg

cc: Tim Powell

Bruce Mitchell

Chet Kagel

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Tree Sweet Broduits Co

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Mr. Tim Powell
Department of Environmental Regulation
2745 S.E. Morningside Blvd.
PORT ST. LUCIE, FL 33452

Dear Mr. Powell:

During our Stack test of March 19, 1986, our August fuel consumption rate was 300 gm/hour of #6 fuel oil.

Sincerely,

John Frederick Lang, C.O. Plant Environmentalist

Moderich Lang

JFL/sr

cc:

Bernie McBee Wayne Griffin

DER

JUN 16 1986

BAQM

TREESWEET PRODUCTS CO. 1000 Bell Avenue, Ft. Pierce, Florida 33482 (305) 461-3800

RECEIVED

WW = 6 1986

Dept. of Environmental Res Port St. Lucie

DEPARTMENT OF ENVIRONMENTAL REGULATION

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POST OFFICE BOX 1786 • BRANDON, FLORIDA 33511 • (813) 685-9727

May 29, 1986

DER

JUN 2 1986

BAQM

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

ATTN: Mike Phillips

RE: AC56 117649 AC56 117671

AC56 117673

Dear Mr. Phillips:

We have received your information request and would like to respond using your numerology.

Specifically:

Boilers 3 and 4 are identical.

- The only modification requested is to allow the use of an alternate fuel. No change in operational hours is contemplated.
- The equipment is already capable of operating on #6 fuel. Consequently no construction is required.
- The current and past permits are as follows:

SOURCE	ISSUED/EXPIRED	NUMBER
Boiler #3	6/04/82 - 6/01/87	A0-56-55650
	3/25/77 - 3/25/82	A0-56-4026
Boiler #4	1/22/81 - 1/22/86	A0-56-38284
	12/08/80 - 4/01/81	AC-56-35634
	2/14/86 - 2/14/91	A0-56-112676

- 4. The operational hours are correct.
- 5. We would like to utilize the boilers without modification or conversion to meet BACT criteria. Consequently, we would suggest operational time limitations for #6 use to retain a minor source/ modification classification.
- This information is contained on the existing permits.
- 7. A flow diagram is attached.

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May 29, 1986 Florida Department of Environmental Regulation Page 2

FEEDMILL

- The feedmill currently is equipped to operate on #6 fuel. No additional construction is necessary. No other operational changes are necessary.
- 2. No construction is required to operate on #6.
- The current and past permits are as follows:

SOURCE	ISSUED/EXPIRED	NUMBER	
Dryer-			
Evaporator	12/22/78 - 12/15/79	AC-56-15012	
	12/22/78 - 12/22/82	A0-56-15011	
	12/10/79 - 12/15/80	AC-56-25094	
	12/15/80 - 12/15/81	AC-56-40775	
	3/29/83 - 3/29/88	A0-56-64438	

- 4. Because of variations in fruit availability the actual dryer operational time will be approximately 2400 hours. Maximum run time will be 2880 hours during the December thru July fresh fruit season.
- 5. The dryer/wasteheat evaporator is a minor source. The proposed modification is a minor modification. The dryer cannot be operated without the wasteheat evaporator. Consequently, true potential emissions should include the removal of the pollutants by the scrubber. A test run on #6 was conducted on 3/19/86. Emission levels were 4.08 #/hr and 20.4 #/hr for particulates and sulfur dioxide respectively. This would reflect annual emissions of 5.88 TNS/yr and 29.38 TNS/yr for particulates and sulfur dioxide respectively (at 2880 Hrs.). This shall be considered as the potential emissions for this source.
- 6. This information is in the previous permit.
- 7. The flow diagram is attached.

POST OFFICE BOX 1786 • BRANDON, FLORIDA 33511 • (813) 685-9727

May 29, 1986 Florida Department of Environmental Regulation Page 3

I trust this information will complete the applications. Should you have any questions please contact me at my office at your earliest convenience. convenience.

Sincerely,

Wayne E. Griffin, P.E.

President

Enclosure

cc: Chet Kagel

Tim Powell

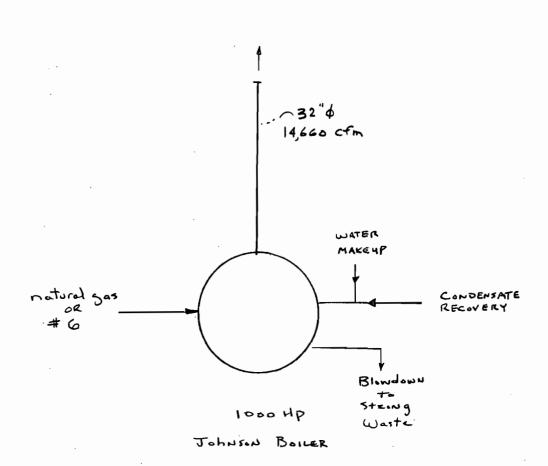
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GULFCOAST ENGINEERING COMPANY, INC.

CONSULTING ENGINEERS

P.O. BOX 1786 • BRANOON, FLORIDA 33511 TELEPHONE: (813) 685-9727 • 685-0085

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GULFCOAST ENGINEERING COMPANY, INC.

CONSULTING ENGINEERS

P.O. BOX 1786 • BRANDON, FLORIDA 33511 TELEPHONE: [813] 685-9727 • 685-0085

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STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHEAST FLORIDA SUBDISTRICT

2745 SOUTHEAST MORNINGSIDE BOULEVARD PORT ST. LUCIE, FLORIDA 33452



DER

JUN 21986

VICTORIA J. TSCHINKEL SECRETARY AL MUELLER SUBDISTRICT MANAGER

BOB GRAHAM

GOVERNOR

BAQM

PERMITTEE:

Treesweet Products, Co., Inc. Bernard W. McBee, Jr., General Manager P.O. Box 189 Fort Pierce, Florida 33454 I.D. Number: APIS #51/56/0009/01

Permit Number: AO-56-64438 Date of Issue: March 29, 1983 Expiration Date: March 29, 1988

County: St. Lucie
Latitude/Longitude:
Section/Township/Range:

Project: Peel Dryer/Waste Heat Evaporator

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

OPERATE:

A Peel Dryer/Waste Heat Evaporator processing 35 tons/hour wet peel; burning 40,000 ft. 3/hour natural gas (40 MM BTU-hour); equipped with a wet scrubber. Hours of operation are normally 16 hours/day, 5 days/week and 30 weeks/year.

IN ACCORDANCE WITH:

Application for Renewal of Permit to Operate Air Pollution Source(s), DER Form 17-1.202(4), received 1/4/83.

LOCATED AT:

1000 Bell Avenue, Ft. Pierce. UTM: Zone 17, 565.6 km East/3031.3 North.

SUBJECT TO:

GENERAL CONDITIONS one (1) through fifteen (15) and SPECIFIC CONDITIONS one (1) through eight (8).

PERMITTEE:

Treesweet Products Co., Inc. Bernard W. McBee, Jr., General Manager I.D. Number: APIS #51/56/0009/01

Permit AD-56-64438

Date of Issue: March 29, 1983 Expiration Date: March 29, 1988

GENERAL CONDITIONS:

 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.
- 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

DER Form 17-1.201(5) Effective November 30, 1982 Page 2 of 4

Treesweet Products Co., Inc. Bernard W. McBee, Jr. General Manager I.D. Number: APIS #51/56/0009/01

Permit/Gercksboaken Number: AO-56-64438 Date of Issue: March 29, 1983

Expiration Date: March 29, 1988

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.

- 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 spproval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.
- 12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)
 - () 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.
 - 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.
- 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.

PERMITTEE: Treesweet Products Co., Inc. Bernard W. McBee, Jr., General Manager I.D. Number: APIS #51/56/0009/01 Permit Number: AO-56-64438 Date of Issue: March 29, 1983 Expiration Date: March 29, 1988

SPECIFIC CONDITIONS:

- 1. The Permittee shall test annually for particulate and visible emissions using EPA Methods 1, 2, 3, 5 and 9 as referenced in Florida Administrative Code (FAC) Rule 17-2.700. Test dates shall be either on or prior to the anniversary date of this permit. At least 14 days prior notice will be afforded to the DER Southeast Florida Subdistrict.
- 2. During the compliance test, the process rate shall be 35 tons/hour wet peel, \pm 10%.
- 3. The emission limiting standard for particulate is defined by the Process Weight Table, 17-2.610(1), FAC Rule. The visible emissions standard is an opacity less than 20% as given in 17-2.610(2), FAC Rule.
- 4. The Permittee shall take necessary precautions to prevent unconfined emissions of particulate matter as deemed necessary by the Department and as referenced in 17-2.610(3)(c), FAC Rule.
- 5. Natural gas is the only permitted fuel for this source. In the event of emergency conditions, when the natural gas supplied is curtailed, fuel oil may be burned only upon immediate notification to the Port St. Lucie Office (within 24 hours of such a curtailment) so that a visible emissions test may be scheduled; the next regularly scheduled stack test must then be performed while firing fuel oil. If the Permittee at some later date wishes to use fuel oil in normal operations, an application must be submitted to the Port St. Lucie Office and a stack test will be rescheduled within 30 days of such a modification.
- 6. The permittee shall submit an Annual Operating Report for each calendar year, on forms provided by the Department, no later than March 1 of the following calendar year.
- 7. The stack sampling facilities shall be maintained and designed as given in 17-2.700(4)(c)., FAC Rule.
- 8. This permit will expire on <u>March 29, 1988</u>. No later than 60 days prior to this date, the Permittee shall apply for a renewed operating permit on forms provided by the Department.

Note: Based on 1/14/83 stack test results, this source is expected to emit 27.5 lb/hr particulate x 2400 hr/yr = 33 TPY. Allowable emissions based on Process Weight Table and 35 TPH wet peel are 30.6 lb/hour or 36.7 TPY.

RMD:tps/8

Issued this 29th day of March, 1983

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

Roy M. Duke

District Manager

4 Pages attached.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHEAST FLORIDA DISTRICT BRANCH OFFICE

2745 SOUTHEAST MORNINGSIDE BOULEVARD PORT ST. LUCIE, FLORIDA 33452



DER

BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL

JUN 2 1986

BAQM

PERMITTEE:

Bernard W. McBee, Jr.
General Manager
TreeSweet Products Co., Inc.
1000 Bell Avenue
Fort Pierce, Florida 33482

APIS No.: 50/56/0009/08 Permit Number: AO-56-112676

Date of Issue: February 14, 1986 Expiration Date: February 14, 1991

County: St. Lucie

Latitude/Longitude: 27°24'11"N/80°20'24"W

Project: Boiler #4

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

OPERATE:

1000 H.P. (17 MM BTU/hr.) Johnson fire tube process steam boiler, Model 538 AHG, burning natural gas (16,148 ft.3/hr. maximum) or No. 2 diesel oil (124 gal./hr.) as backup fuel; discharging pollutants through 36 inch I.D. stack, 38.5 ft. above ground; unlimited hours of operation.

IN ACCORDANCE WITH:

The original construction permit, AC-56-35634; "Application for Renewal of Permit to Operate Air Pollution Sources", DER Form 17-1.202(4), received November 22, 1985.

LOCATED AT:

1000 Bell Avenue, Fort Pierce. UTM Coordinates: Zone 17, 565.3 km East/3030.4 km North.

SUBJECT TO:

GENERAL CONDITIONS one (1) through fifteen (15) and SPECIFIC CONDITIONS one (1) through four (4).

PERMITTEE:

I.D. Number: Permit/Certification Number: Date of Issue: Expiration Date:

GENERAL CONDITIONS:

- 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.
- 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 limit tion 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

I.D. Number:
Permit/Certification Number:
Date of Issue:
Expiration Date:

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.

- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111. Florida Statutes.
- 10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or department rules.
- 11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.
- 12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)
 - () 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.
 - 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.

DER Form 17-1.201(5) Effective November 30, 1982 Page 3 of ___

PERMITTEE:

Bernard W. McBee, Jr., General Manager

TreeSweet Products Co., Inc.

APIS Number: 50/56/0009/08 Permit Number: AO-56-112676

Date of Issue: February 14, 1986 Expiration Date: February 14, 1991

SPECIFIC CONDITIONS:

- 1. The emission limiting standard for this source is less than 20 percent opacity as referenced in FAC Rule 17-2.600(5). Compliance with the standard is accomplished by performing EPA Method 9 as referenced in FAC Rule 17-2.700.
- 2. Compliance with the visible emissions standard shall be tested for prior to renewal of this permit. At least 14 days prior notice will be afforded the DER Southeast Florida Subdistrict Office in Port St. Lucie. Test results must be submitted to this office within 45 days after the test date.
- 3. During the compliance test, the source shall be fired with the "worst-case" fuel permitted, 124 gal./hr. No. 2 Diesel, + 10%.
- 4. This permit will expire on 2/14/1991. No later than 60 days prior to this date, the Permittee shall apply for a renewal of the permit on forms provided by the Department. Along with the application, test results showing compliance with the standard must be submitted. The test must have been run no earlier than 90 days from the date of expiration. At least 14 days prior notice shall be afforded the DER Southeast Florida Office in Port St. Lucie so that a representative may witness the test.

AP:tps/17

Issued this 14th day of February, 1986

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

Alexander Padva, Ph.D. Acting District Manager

4 Pages attached.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTH FLORIDA SUBDISTRICT BRANCH OFFICE

2745 SOUTHEAST MORNINGSIDE BOULEVARD PORT ST. LUCIE, FLORIDA 33452



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL

SECRETARY

DER

JUN 21986

apis #51/**BAQM**3

APPLICANT:

William E. Parker

Executive Vice President TreeSweet Products Company

Post Office Box 189

Fort Pierce, Florida 33454

PERMIT/CERTIFICATION NO. AO 56-55650

COUNTY: St. Lucie

PROJECT: TreeSweet Products Co.

Boiler #3

This permit is issued under the provisions of Chapter 403, Florida Statutes and Chapter 17-2, Florida Administrative Code. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications attached hereto and made a part hereof and specifically described as follows:

OPERATE: A 1000 H.P. (33.5 MMBTU/HR) Johnson Firetube Boiler fired by natural gas with #2 fuel oil standby discharging pollutants to the atmosphere 25 feet above ground level.

IN ACCORDANCE WITH: Application to Operate Air Pollution Sources dated February 16, 1977 and Application for Renewal dated May 10, 1982.

LOCATED AT: 1000 Bell Avenue, Fort Pierce

UTM COORDINATES: Zone 17; 565.4 KmE, 3030.6 KmN

SERVING: A citrus processing plant (SIC# 2037)

SUBJECT TO: General Conditions 1 - 12 and Specific Condition 1 - 6.

Page 1 of 4

DER Form 17-1.122(63) 1/4 (1/80)

PERMIT NO.: APPLICANT:

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 Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court 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 indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.
- 3. 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 non-compliance, 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.
- 4. As provided in subsection 403.087(6), 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.
- 5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.
- 6. 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 Section 403.111, F.S.
- 7. In the case of an operation permit, 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.
- 8. 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 penalities 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, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.
- 9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.
- 10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.
- 11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.
- 12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation 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.
- 13. This permit also constitutes:
 [] Determination of Best Available Control Technology (BACT)
 [] Determination of Prevention of Significant Deterioration (PSD)
 [] Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

PERMIT NO: AO 56-55650 - TreeSweet Products Company APPLICANT: Mr. William E. Parker, Executive Vice President

SPECIFIC CONDITIONS:

- 1. Compliance testing shall be conducted for the sources covered by this permit prior to renewal in accordance with the methods specified below.
- 2. Emission limiting standard is as follows:

In accordance with Florida Administrative Code Rule 17-2.610(2), visible emissions from this boiler shall not equal or exceed an average of 20% opacity.

3. The compliance test report shall include emissions tested by the following methods:

Source/Emission Point	<u>Pollutant</u>	Test Method
Boiler #3	Visible Emissions	EPA Method 9

The compliance test report shall be submitted to the Department in accordance with Florida Administrative Code (F.A.C.) Rule 17-2.700(7).

- 4. Testing of emissions should be conducted using the fuel and/or process input which are expected to result in the highest emissions and within ten percent (10%) of the rated capacity of the source. Otherwise the Department may require the test to be repeated or modify the permit to reflect tested rates and/or fuels.
- 5. The Department shall be notified of expected test dates at least ten (10) days prior to compliance testing.
- 6. Copies of all reports, tests, notifications or other submittals required by this permit shall be submitted to the Department of Environmental Regulation, South Florida Subdistrict Branch Office.

PERMIT NO: AO 56-55650 - TreeSweet Products Company

APPLICANT: Mr. William E. Parker, Executive Vice President

SPECIFIC CONDITIONS (continued):

NOTE: The sources covered by this permit are expected to emit the following amounts of pollutants:

Particulate

0.4 tons/year
2.3 tons/year

 $NO_{\mathbf{X}}$

· ·

Based on: AP42-Table 1.4-1, emission factors; burning 0.016 MMCF/hr of natural gas 4800 hrs/yr.

Expiration Date: June 1, 1987

Issued this M day of

1982

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

Roy M. Duke

Subdistrict Manager

Page 4 of 4

EMISSIONS TEST REPORT TREESWEET PRODUCTS COMPANY WASTE HEAT EVAPORATOR MARCH 19, 1986

Prepared For:

TREESWEET PRODUCTS COMPANY
1000 BELL AVENUE
FORT PIERCE, FLORIDA

Prepared By:

ENVIRONMENTAL ENGINEERING CONSULTANTS, INC. 5119 NORTH FLORIDA AVENUE TAMPA, FLORIDA

TABLE OF CONTENTS

- I. SUMMARY
- II. SOURCE DESCRIPTION
- III. METHODS AND PROCEDURES

APPENDIX A - Test Data and Calculations

APPENDIX B - Process Weight Statement

APPENDIX C - Calibration Data

APPENDIX D - Chain of Custody

On March 19, 1986 Environmental Engineering Consultants, Inc. conducted an emissions test on the exhaust stack of the citrus peel dryer at Treesweet Products Company in Fort Pierce, Florida. Particulate matter and sulfur dioxide emission rates for certification of compliance while burning No. 6 fuel oil were determined according to procedures prescribed by the United States Environmental Protection Agency Methods 5 and 6.

The test was conducted by Carl Fink and Byron Burrows of Environmental Engineering Consultants, Inc. with the assistance and cooperation of John Lang and Mike Bryant of Treesweet Products.

A summary of the test results is shown in Table 1. average emissions rate was 4.08 pounds per hour of particulates and 20.40 pounds per hour of sulfur dioxide at an average process input rate of 25.75 tons per hour of wet peel. The particulate emission rate is well below the emission limiting standard of 26.90 pounds per hour. There is no emissions standard for sulfur dioxide. The facility is therefore found to be in compliance with applicable standards.

I hereby certify that these results are true and correct and were obtained by the procedures and methods described herein. Respectfully Submitted;

Carl F. Fink

Associate Engineer

200

Test Team Leader

Jáck R.

Principal

TABLE 1
TEST SUMMATION

PLANT: Treesweet Products

SOURCE: Waste Heat Evaporator

DATE: March 19, 1986

Run No.	Sample Vol. (DSCF)	Flow Rate (DSCFM)	Moisture (%)	Stack Temp. (°F)	Isokinetics	Particulate Emissions (lb/hr)	SO2 Emissions (lb/hr)
1	40.462	16,766	20.97	146	100.0	2.59	22.98
2 .	37.303	14,553	30.79	160	106.2	3.80	13.31
3	36.130	13,930	35.83	168	107.5	5.86 	24.91
Average		15,083	29.20	158	104.6	4.08	20.40
					Allowable	26.90	N/A

Allowable Emissions Rate from 17-2.610(1)(b); E = 3.59 po.62

II. SOURCE DESCRIPTION

Treesweet Products Company processes fruit juice and a dried citrus peel used as animal feed. After removing the juice, the wet peel is shredded and lime is added. After pressing to remove liquids and essential oils, the peel is conveyed to the dryer where the moisture content is reduced from approximately 75 percent to 15 percent. The dried peel is loaded into trucks for shipping, and exhaust gases are passed through a scrubber and then through a heat recovery unit before being vented to the atmosphere (Figure 1). During this test the dryer was being fired with a No. 6 fuel oil with a sulfur content of 2.5 percent.

The stack is 38 inches in diameter and approximately 100 feet high with two sampling ports. The sampling ports are located 0.63 diameters upstream and 3.8 diameters downstream from flow disturbances in the exhaust flow (Figure 2).

Process input rates were determined by combining the dried peel output with the moisture removed by the drier. The dried peel output was determined by Treesweet. Analysis of the wet peel input and dry feed output were used to calculate the moisture removed during drying. The samples were composited prior to analysis to obtain average values.



May 22, 1986

Mr. T. Powell Department of Environmental Regulation 2745 S.E. Morningside Blvd. Port St. Lucie, Florida 33452

Dear Mr. Powell:

Please find enclosed two copies of our stack tests utilizing 2.5% sulfur by weight fuel oil #6. It is my understanding that this is the last piece of information needed to begin work on my permit modification for the waste heat evaporator and dryer complex.

Thank you,

John Frederick Lang Plant Environmentalist

John Mederick Lang

JFL/sr



MAY 27 1986

Dept. of Commonweller Reg. Port St. Lucie

ROUTING AND	ACTION I	NO
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2.		Initial
Tallabessee		Date
3.		Initial
	•	Date
4.		Initial
DFR		Date
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T. Pawel	45	1-5005
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EMISSIONS TEST REPORT
TREESWEET PRODUCTS COMPANY
WASTE HEAT EVAPORATOR
MARCH 19, 1986

Prepared For:

TREESWEET PRODUCTS COMPANY 1000 BELL AVENUE FORT PIERCE, FLORIDA

Prepared By:

ENVIRONMENTAL ENGINEERING CONSULTANTS, INC. 5119 NORTH FLORIDA AVENUE TAMPA, FLORIDA

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The test was conducted by Carl Fink and Byron Burrows of Environmental Engineering Consultants, Inc. with the assistance and cooperation of John Lang and Mike Bryant of Treesweet Products.

A summary of the test results is shown in Table 1. The average emissions rate was 4.08 pounds per hour of particulates and 20.40 pounds per hour of sulfur dioxide at an average process input rate of 25.75 tons per hour of wet peel. The particulate emission rate is well below the emission limiting standard of 26.90 pounds per hour. There is no emissions standard for sulfur dioxide. The facility is therefore found to be in compliance with applicable standards.

Carl F. Fink

Associate Engineer

Test Team Leader

Jack R. Fross

⁄PrincipalV

TABLE 1
TEST SUMMATION

PLANT: Treesweet Products

SOURCE: Waste Heat Evaporator

DATE: March 19, 1986

Run No.	Sample Vol. (DSCF)	Flow Rate (DSCFM)	Moisture (%)	Stack Temp. (°F)	Isokinetics (%)	Particulate Emissions (lb/hr)	SO2 Emissions (lb/hr)
1	40.462	16,766	20.97	146	100.0	2.59	22.98
2	37.303	14,553	30.79	160	106.2	3.80	13.31
3	36.130	13,930	35.83	168	107.5	5.86 	24.91
Average		15,083	29.20	158	104.6	4.08	20.40
					Allowable	26.90	N/A

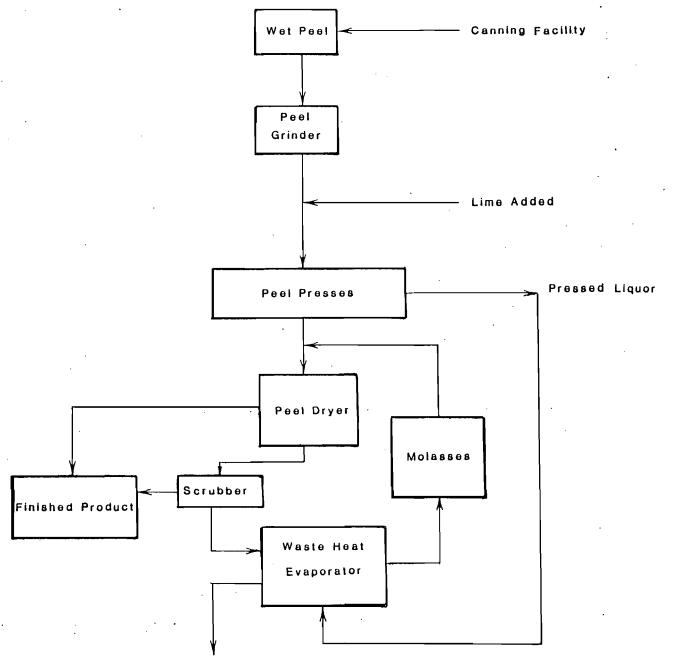
Allowable Emissions Rate from 17-2.610(1)(b); E = 3.59 po.62

II. SOURCE DESCRIPTION

Treesweet Products Company processes fruit juice and a dried citrus peel used as animal feed. After removing the juice, the wet peel is shredded and lime is added. After pressing to remove liquids and essential oils, the peel is conveyed to the dryer where the moisture content is reduced from approximately 75 percent to 15 percent. The dried peel is loaded into trucks for shipping, and exhaust gases are passed through a scrubber and then through a heat recovery unit before being vented to the atmosphere (Figure 1). During this test the dryer was being fired with a No. 6 fuel oil with a sulfur content of 2.5 percent.

The stack is 38 inches in diameter and approximately 100 feet high with two sampling ports. The sampling ports are located 0.63 diameters upstream and 3.8 diameters downstream from flow disturbances in the exhaust flow (Figure 2).

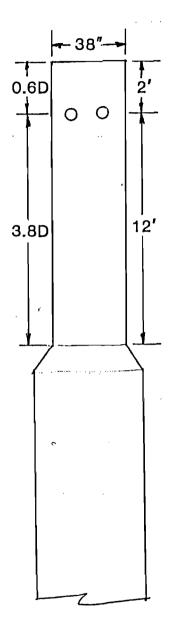
Process input rates were determined by combining the dried peel output with the moisture removed by the drier. The dried peel output was determined by Treesweet. Analysis of the wet peel input and dry feed output were used to calculate the moisture removed during drying. The samples were composited prior to analysis to obtain average values.



To Stack Exhaust

FEED MILL PROCESS DESCRIPTION

TREESWEET PROD	UCTS
ENVIRONMENTAL ENGINEERING	Fig. 1
CONSULTANTS, INC.	
CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS	



PT. NO.	DIST. (IN.)
1	1.00*
2	2.55
3	4.48
4	6.73
5	9.50
6	13.49
7	24.51
8	28.50
9	31.27
10	33.52
11	35.45
12	37.00*

* Adjusted to 1 inch from stack wall.

SAMPLING POINTS TREESWEET PRODUCTS

ENVIRONMENTAL ENGINEERING CONSULTANTS, INC.

CONSULTING ENGINEERS & ENVIRONMENTAL SCIENTISTS

Figure 2

III. METHODS AND PROCEDURES

EPA Methods 1 and 2 were used to obtain the sampling port locations and determine stack velocity and volumetric flowrate respectively. Twenty-four points were determined to be the proper number of sampling locations. Each point was sampled for 2.5 minutes, giving a total time of 60 minutes per run. EPA Methods 5 and 6 were followed for sampling and analysis of particulates and sulfur dioxide, respectively.

Particulate

The Method 5 sampling train was assembled as shown in Figure 3 for each particulate test. A five foot probe with a heated pyrex glass liner was used. The probe temperature was monitored continuously during the test runs. Stack temperature measurements were conducted at each point during the initial velocity traverse and during sampling.

The first and second impingers were each charged with 100 ml of distilled, deionized water; the third was dry; and the fourth was filled with known weight of indicator-grade silica gel. Crushed ice was placed around the impingers during sampling to maintain the temperature of the gas leaving the last impinger below 68 F.

A borosilicate glass fiber filter (maintained at a $$^{\rm O}$$ temperature of 248 \pm 25 F) was used for particulate matter collection. The filter temperature was monitored throughout the test.

Leak tests were performed before and after each sampling run by blocking the nozzle inlet. No leakages were observed at vacuum levels equal to or exceeding those experienced during sampling.

At the end of each run the volume of water collected in the first three impingers was measured and the silica gel in the fourth impinger was weighed to the nearest 0.5 gram to determine the volume of water collected. All impingers were then rinsed and charged for the next run.

The filter holder was removed, sealed, and stored for subsequent gravimetric analysis. The sample nozzle and probe liner were brushed and rinsed with acetone into a storage container. A new loaded filter holder was installed and the sampling train reassembled for the next run.

After returning to the laboratory, the filters were oremoved from the holders, oven dried at 105 C for 2 hours, cooled in a desiccator and weighed to constant weight. The front half of each filter holder was brushed and rinsed with acetone into the bottle with the corresponding probe rinse.

The acetone wash volumes were measured and transferred to tared 400 ml beakers and evaporated to dryness at low heat and ambient pressure. The beakers were then cooled in a desiccator and weighed to constant weight. A portion of the acetone used for component washing was analyzed by the same procedure to determine blank residue.

Sulfur Dioxide

The Method 6 sampling train was assembled as shown in Figure 4 for each sulfur dioxide test. A mass flowmeter with totalizer was substituted for the dry gas meter for volume measurements. A three foot probe with a heated 1/4 inch pyrex glass liner was inserted approximately 18 inches into the stack for sampling. The probe liner was connected to the impingers with pyrex glass fittings.

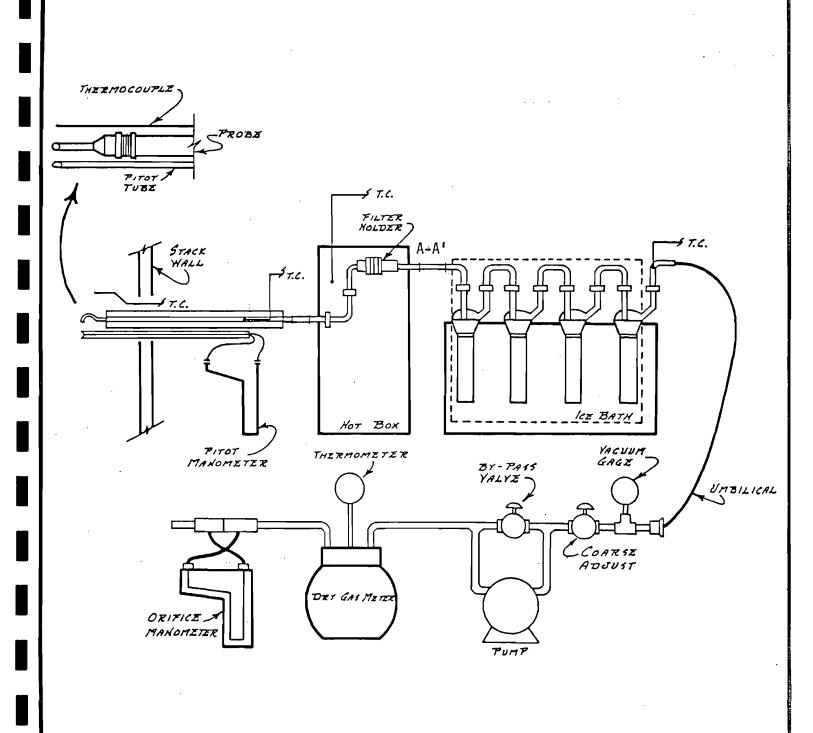
The first midget impinger was charged with 15 ml of 2-propanol; the second and third were charged each with 15 ml of 3% hydrogen peroxide; and the fourth was dry. The entire sampling train was immersed in an ice bath to maintain the temperature of the gas leaving the last impinger below 68 F. This temperature was monitored throughout the test with a thermocouple in the outlet line from the final impinger.

The sampling flowrate was adjusted to approximately one liter per minute as indicated by the mass flowmeter. At the end of each twenty minute sampling period, a leak check was performed by pulling a vacuum of 10 in. Hg. at the inlet of the first impinger and observing less than 20 cc/min flow as indicated by the mass flowmeter. The ice bath was then drained and the sampling system purged with ambient air for 20 minutes at the rate of approximately one liter per minute.

At the end of each purge period, the 2-propanol was discarded and the contents of the other three midget impingers transferred quantitatively to a polyethylene container for laboratory analysis. Distilled water rinses of the midget impingers and

connecting glassware were added to the sampler container. The train was then charged and reassembled for the next run. A reagent sample blank was prepared from the peroxide solution used for charging the impingers.

The sulfur dioxide and peroxide blank samples were analyzed by Interscience, Inc. using the barium-thorin procedure as described in EPA Method 6.



Section A-A' consisted of a 50 ft. Flexible Tube

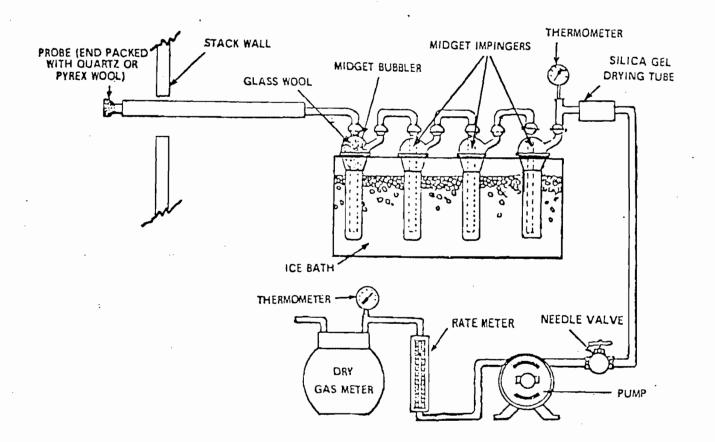
METHOD	9	OVINI	L LIM	u i	ותח	1 A

Figure 3

ENVIRONMENTAL ENGINEERING CONSULTANTS, INC.

ENVIRONMENTAL SCIENTISTS

CONSULTING ENGINEERS,



METHOD 6 SAMPLING TRAIN

ENVIRONMENTAL ENGINEERING CONSULTANTS, INC.

CONSULTING ENGINEERS & ENVIRONMENTAL SCIENTISTS

Figure 4

APPENDIX A

TEST DATA AND CALCULATIONS

SOURCE TESTING NOMENCLATURE AND DIMENSIONS

	2
An:	Cross sectional area of nozzle, ft
As:	Cross sectional area of stack, ft
Bws:	Water vapor in the gas stream, proportion by volume
Cs:	Concentration of particulate matter in stack gas at standard conditions, gr/dscf
Cs50:	Concentration corrected to 50% excess air
Csl2:	Concentration corrected to 12% carbon dioxide
Cp:	Pitot tube coefficient
E:	Source emission rate, lbs/hr
EA:	Excess air
Fd:	Ratio of standard volume of gas produced per unit of heat combustion (oxygen based), dscf/MBTU
I:	Percent of isokinetic sampling
Md:	Molecular weight of stack gas, dry basis, lb/lb-mole
Ms:	Molecular weight of stack gas, wet basis, lb/lb-mole
Mn:	Total particulate collected, less acetone blank correction; grams
Pb:	Barometric pressure at test site, in. Hg
Ps:	Absolute stack gas pressure, in. Hg
Qs:	Volumetric flow rate, dry at standard conditions, DSCFM
Tm:	Absolute average dry gas meter temperature, R
Ts:	Absolute average stack gas temperature, R
Vlc:	Total volume of liquid collected in impingers and silica gel, ml

Volume of gas sampled under actual conditions, DCF

Vm:

Vm(std): Volume of gas sampled corrected to standard con-

ditions, DSCF

Vs: Stack gas velocity, ft/sec

Vw: Volume of water in sample corrected to standard

conditions, SCF

Y: Dry gas meter calibration factor

θ: Total sampling time, min.

P: Velocity head, in H2O

H: Average pressure differential across orifice

meter, in. H2O

SUMMARY OF TEST DATA

Plant: Treesweet Products Source: Evaporator

Date: March 19, 1986 Emission: Particulate Matter

	Run 1	Run 2	Run 3
Test Interval:	0836-0939	1112-1214	1327-1428
Test Time, min.:	60	60	60
Stack Area, sq. ft.:	7.876	7.876	7.876
Nozzle Diameter, in.:	0.241	0.241	0.241
Barometric Pressure, in. Hg.:	30.05	30.05	30.00
Absolute Stack Pressure, in. Hg:	30.01	30.01	29.96
Volume Liquid Collected, ml.:	227.9	352.4	428.3
Stack Gas Moisture Content, %:	20.97	30.79	35.83
Stack Gas Temperature, F:	146	160	168
Sample Volume, DSCF:	40.462	37.303	36.130
Gas Velocity, FPS:	51.410	52.135	54.607
Gas Flowrate, ACFM:	24,295	24,637	25,805
Gas Flowrate, DSCFM:	16,766	14,553	13,930
Particulate Matter Collected, g:	0.0473	0.0737	0.1150
Concentration, grains/DSCF:	0.0180	0.0305	0.0491
Emission Rate, lb/hr:	2.59	3.80	5.86
Percent Isokinetic, %:	100.0	106.2	107.5

SUMMARY OF TEST DATA

Plant: Treesweet Products Source: Evaporator

Date: March 19, 1986 Emission: Sulfur Dioxide

	Run l	Run 2	Run 3
Test Interval:	0730-0750	1000-1020	1222-1242
Barometric Pressure, in. Hg.:	30.05	30.05	30.00
Sample Volume, DSCF:	0.711	0.709	0.713
Stack Temperature, °F:	146	160	168
Gas Flowrate, ACFM:	24,295	24,637	25,805
Gas Flowrate, DSCFM:	16,766	14,553	13,930
Sulfur Dioxide, meq.:	0.230	0.153	0.301
Emission Rate, 1b/hr:	22.98	13.31	24.91

PLANT,	TRUTSWET PRODUCTS
SOURCE	WASTE MEAT ENNOWATE
DATE	3-19-86
RUN N	0
CAL	(BRATION
CP	0,84
У	1.003
D_n	0.241 in.
A_{n}	3.1678×10-4 AZ
NE	W DATA
Ps.	30.05 In.Hg.
Ps.	30.01 In.Hg
A_s	7.876 fl ³
θ	60 min.
V~	41.811 DCF
ΔH	1.93 In Ho
Tm	552 °R
Ts	606 °R

(VAP) 0. 8352

Mn 0.0473 g.

$$V_{m_{(SH)}} = \frac{17.64 \text{ Vm y } (P_b + \triangle H/13.6)}{Tm} = \frac{17.64 (41.811)(1.003)(30.05 + \frac{1.93}{13.6})}{(552)} = \frac{40.4615}{0.555} \text{ DSCF}$$

$$V_w = 0.0471 V_{1c} = 0.0471 (227.9) = \frac{10.7341}{0.7341} \text{ SCF}$$

$$B_{us} = \frac{V_w}{V_u + V_{m_{(SEA)}}} = \frac{(0.7341)}{(10.7341) + (40.465)} = \frac{0.2097}{0.2097}$$

$$M_d = 0.44 (2.00) + 0.32 (2.00) + 0.28 (2.00 + 2.00) = \frac{10.7341}{0.000} = \frac{1$$

CONSULTANTS, INC.

CONSULTING ENGINEERS,

	Fig. 16. Land (Mark 2000) 1. Since it is not
PLANT,	THEESWEET MODICS
	WASTE HEAT BINISHTOR
DATE	3-19-86
RUN N	0, _2
CA.	(BRATION
C	(0.04
Cp	0.84
Y	1,003
\mathcal{D}_n	0.241 in.
A,	3.1678 × 10-4 fl2
NE	W DATA
Ps	30.05 In. Hg.
Ps	30.01 In.Hg
A۶	0(2
	7.876 ft3
θ	7.876 H
1	
θ	60 min.
0 V~	60 min. 38.508 DCF
Θ V., ΔΗ	60 min. 38.508 DCF 1.60 In.Ho
O Va AH Tm	60 min. 38.508 DCF 1.60 In.Ho 551 °R
O Va AH Tm Ts	60 min. 38.508 DCF 1.60 In.Ho 551 PR 620 PR 352.4 MI
O Va AH Tra Tra Vic	60 min. 38.508 DCF 1.60 In.Ho 551 PR 620 PR 352.4 MI

$$V_{m(sy)} = \frac{17.64 \text{ Vm y } (P_b + \Delta H/13.6)}{Tm} = \frac{17.64 (38.508)(1.003)(30.05 + \frac{1.60}{13.6})}{(557)} = \frac{37.3027}{DSCF}$$

$$V_w = 0.0471 V_{Ic} = 0.0471 (3524) = \frac{16.5780}{(16.5780) + (37.3027)} = \frac{0.3079}{0.3079}$$

$$M_d = \frac{V_w}{V_w \cdot V_{m \, (std)}} = \frac{(16.5780) + (37.3027)}{(16.5780) + (37.3027)} = \frac{0.3079}{0.3079}$$

$$M_d = 0.44 (3.002) + 0.32 (3.002) + 0.28 (3.007) = \frac{10.3079}{0.307} = \frac{26.3052}{0.3052}$$

$$V_s = \frac{10.30}{0.307} + \frac{10.30}{0.307} + \frac{10.307}{0.307} = \frac{10.3052}{0.307}$$

$$V_s = \frac{10.58}{0.007} + \frac{10.307}{0.007} + \frac{10.307}{0.007} = \frac{10.305}{0.007} = \frac{14.553}{0.007} + \frac{10.573}{0.007} = \frac{10.3057}{0.007} = \frac{14.553}{0.007} + \frac{10.573}{0.007} = \frac{10.207}{0.007} = \frac{10.305}{0.007} = \frac{10.207}{0.007} = \frac{10.207}{0.007$$

CONSULTING ENGINEERS.

i.	
PLANT,	TREESWET RODULTS
SOURCE	WASIE HEAT ENAPORATOR
DATE	3-19-86
RUN N	0, 3
CAL	IBRATION
Cp	0.84
γ	1.003
D_n	0.241 in.
A,	3.1678NO-4 fl2
NE	W PATA
NE Ps	W DATA 30.00 In.Hg.
Ps .	30.00 In.Hg.
Ps Ps	30.00 In.Hg.
Ps Ps As	30.00 In.Hg. 29.96 In.Hg. 7.876 ff ²
Ps Ps As 0	30.00 In.Hg. 29.96 In.Hg. 7.876 ft ² 60 min.
Ps Ps As O Va	30.00 In.Hg. 29.96 In.Hg. 7.876 ff ² 60 min. 37.640 DCF
Ps Ps As O Va AH	30.00 In.Hg. 29.96 In.Hg. 7.876 ft ² 60 min. 37.640 DCF 1.50 In.Hg
Ps Ps As O Va AH Tm	30.00 In.Hg. 29.96 In.Hg. 7.876 ff ² 60 min. 37.640 DCF 1.50 In.Hg. 5555 PR

$$V_{m(sij)} = \frac{17.64 \text{ Vm y } (P_b + \Delta H/3.6)}{Tm} = \frac{17.64 (37.640)(1.003)(32.00 + \frac{1.50}{13.6})}{(555)} = 36.1303 \text{ DSCF}$$

$$V_{ij} = 0.0471 V_{ic} = 0.0471 (428.3) = 20.1729 \text{ SCF}$$

$$B_{ij} = \frac{V_{ij}}{V_{ij} \cdot V_{m(skij)}} = \frac{(}{}) + () = \frac{0.3583}{}$$

$$M_{ij} = 0.44 (3.002) + 0.32 (2.02) + 0.28 (2.00 + 2.002) = 25.7204$$

$$V_{ij} = 0.44 (] + 0.32 (] + 0.28 (] = 25.7204$$

$$V_{ij} = 85.49 C_{p} (\sqrt{\Delta P})_{avj} (T_{5}/P_{5}M_{5})^{\frac{1}{2}} = 85.49 (.84)(.8420) \left[\frac{(628)}{(22.96)} \right]^{\frac{1}{2}} = 54.607 \text{ FPS}$$

$$Q_{ij} = 1.058 (1 - B_{ik}) V_{ij} A_{5} (P_{5}/T_{5}) = 1.058 (.6417)(54.07)(7.876) \frac{(29.96)}{(628)} = \frac{13.930}{(25.905)} \text{ DSCFM}$$

$$I = \frac{1000 V_{m(skij)} A_{5}}{B Q_{5} A_{1}} = \frac{100 (36.1203)(7.876)}{(60) (36.3203)} = 0.049 (] 9^{-1}/DSCF$$

$$E = \frac{C_{5} Q_{5}}{116.67} = \frac{(.0491)(13.920)}{(166.67)} = \frac{5.86}{CALCULATION} SHEET$$

$$Environmental Engineering}$$

$$Environmental Engineering}$$

$$Environmental Engineering}$$

PLANT TREESWAST PLOSUCTS SOURCE EVANDRATOR 3-19-86	NOTE: FLOWRATE VALUES ARE THOSE BETERMINED WEING PARTICULATE RUN IMMODILITERY FOLLOWING SOZ METHOS 6 SAMPLE.
DATE $\frac{319-86}{1-50_2}$	$B_{\omega_s} = \frac{V_{\omega}}{V_{\omega_1} V_{\omega_1(\omega)}} = \frac{()}{()+()} = \frac{0.2097}{()}$
FLOW PATE Cp	$M_{d} = 0.44(\% CO_{2}) + 0.32(\% O_{2}) + 0.28(\% CO_{2}) + 0.28(\% CO_{2}) = 0.44(\% CO_{2}) + 0.32(\% CO_{2}) + 0.28(\% CO_{2}) = 0.44(\% CO_{2}) + 0.32(\% CO_{2}) + 0.28(\% CO_{2}) = 0.44(\% CO_{2}) + 0.32(\% CO_{2}) + 0.28(\% CO_{2}) = 0.44(\% CO_{2}) + 0.32(\% CO_{2}) + 0.28(\% CO_{2}) = 0.44(\% CO_{2}) + 0.32(\% CO_{2}) + 0.28(\% CO_{2})$
P _b 30.05 in H _q P _s 30.01 in H _q	$M_s = M_d(1-Bu_s) + 18Bu_s = ()()+18() = 27.4836$ $V_s = 85.49 C_p (\sqrt{\Delta P})_{avg} \cdot (\sqrt{T_s}/P_s M_s)^{\frac{1}{2}} = \frac{27.4836}{2}$
As 7.876 A2. V. DCF AH INHO	$85.49()() \left[\frac{()}{()} \right]^{\frac{1}{2}} = 51.410 \text{F.75}$ $Q_{5} = 1058 (1 - 8u_{5}) V_{5} A_{5} (P_{5}/T_{5}) =$
Tn or Ts 606 98	1058 ()()()() = 16,766 SCFM
VIC	$V_{mGH} = \frac{V_m Y_0^2}{R} = (1.004)(1.00$
502 Y 1.004 K 7.061 x 10 ⁻⁵ b/meq.	$C_{50_2} = \frac{(50_2)}{(V_{13})} = (7.04 \times 10^5) \frac{(.230)}{(.748)} = 2.2841 \times 10^{-5} \frac{14}{0} \times 10^{-5}$
V 0,708 SKF	Eso= CsQs(60) = (2.2841No5)(16,766)(60) = 22.98 11/hr SAMPLE CALCULATION
Tm N/A OR Pb in Hy	#1 SO2 VALUES SOURCE SAMPLING #1 SOURCE SAMPLING #1 ENVIRONMENTAL ENGINEERING
50 ₂ . 230 meq.	CONSULTANTS, INC.

PLANT TRAJULET NOTE: FLOWRATE VALUES ARE THOSE DETERMINED WEING PARTICULATE RUN IMMEDIATERY FOLLOWING SOZ METHOU 6 SAMPLE. SOURCE _ EVAPORATUR DATE 3-19-86 RUN NO. 2-502 $B_{\omega_s} = \frac{V_{\omega}}{V_{\omega_s} + V_{\omega_s}} = \frac{(}{}) + () = 0.3079$ FLOWRATE $M_d = 0.44(\% CO_2) + 0.32(\% O_2) + 0.28(\% CO + \% N_2) =$ Cp_0.84 0.44 ()+ 0.32 ()+0.28 () = ASSUME 30.0 $M_s = M_d(1-Bu_s) + 18Bu_s = ()()+18() = 26.352$ Pb 30.05 in Ha Vs = 85.49 Cp (VDP) ay. (Ts/PsMs) = Ps 30.01 In. Hy 85.49()() $\frac{(1)^{1/2}}{(1)^{1/2}} = \frac{52.135}{52.135}$ F.75 As 7.876 ft2 V_______DCF <u>ν.Η.ο</u> Qs= 1058 (1-8ws) Vs As (Ps/Ts) = 1058 ()()()()= 14,553 SCFM Ts 620 98 $V_{m(y)} = \frac{V_m Y v_m}{v_m} = \frac{(1000)(1.004)(1.004)}{(1.004)(1.004)} = 0.709$ 0.709 0.709 0.709(VAP) 4, 0.8192 502 Y_1.00f $C_{50z} = \frac{(50z)}{(V)} = (7.061 \times 10^5) \frac{(.153)}{(.709)} = 1.5237 \times 10^{-5} \frac{1}{100} \times 10^{-5}$ $E_{so} = C_s Q_s(60) = (1.5237x0)(14,553)(60) = 13.31$ K 7.061 × 10-5 1/2. SAMPLE CALCULATION V 0.706 DEF SOURCE SAMPLING ESO2 VALUES 502 CALCULATION SHEET T M/A OR #1 ______15/~ ENVIRONMENTAL ENGINEERING SO, 0.153 mag. CONSULTANTS, INC. #3 _____ I/w CONSULTING ENGINEERS, AV6. _____ 4/hr ENVIRONMENTAL SCIENTISTS

NOTE: FLOWRATE VALUES ARE THOSE BETERMINED PLANT PROBLETS WEING PARTICULATE RUN IMMODIATELY FOLLOWING SOZ METHOS 6 SAMPLE. SOURCE _EVAPORATOR DATE 3-19-86 RUN NO. 3-502 $B_{\omega_s} = \frac{V_{\omega}}{V_{\omega + V_{\omega}, \omega}} = \frac{(}{}) + () = 0.3583$ FLOWRATE Cp_0.84 $M_d = 0.14(\% CO_2) + 0.32(\% O_2) + 0.28(200 + \% N_2) =$ 0.44 ()+0.32 ()+0.28 () = ASSUME 30.0 $M_s = M_d(1-B_{us}) + 18 B_{us} = ()()+18() = 25.7004$ Pb 30.00 in the Vs = 85.49 Cp (VDP) ay. (T5/Ps Ms) 1/2 = Ps 29-96 In. Hg A 7.876 ft2 85.49()()() = 54.607 F.35V_ <u>DCF</u> $Q_s = 1058 (1 - B_{Ws}) V_s A_s (P_s/T_s) =$ 1058 ()()()() $\frac{(}{(})$ = 13,930 SCFM Ts 628 98 $V_{mGU} = \frac{V_m Y V_w}{V_w} = \frac{(-1)(0.710)(1.004)(1)}{(1.004)(1)} = \frac{0.713}{0.710}$ DSCF (VAP) 4 0.8420 50₂ $C_{50_2} = \frac{(50_2)}{(V_{11})} = (7.04 \times 10^5) \frac{(0.301)}{(.713)} = 2.9809 \times 10^{-5}$ Y 1.004 $E_{so} = C_s Q_s(60) = (29809 \times 10^{-5})(13,930)(60) = 24.91 \frac{11}{hr}$ K 7.061 x10-5 SAMPLE CALCULATION V 0.710 ACF ESO2 VALUES SOURCE SAMPLING 502 CALCULATION SHEET T N/A OR #1 _____ 15/~ #2____Ww ENVIRONMENTAL ENGINEERING SO, 0.301 meq. CONSULTANTS, INC. #3 _____ 11/w CONSULTING ENGINEERS, AV6. _____ W/hr ENVIRONMENTAL SCIENTISTS

Interscience, Inc.



March 31, 1986

5460 Beaumont Center Blvd. Tampa, FL 33614 (813) 885-4774

Environmental Engineering Consultants P. O. Box 7854 Tampa, Florida 33673

Attn:

Mr. Carl Fink

Re:

Project Number: 86030-20

Analysis of Samples for SO Sample Numbers: 86-03-167 thru 86-03-170

METHODOLOGY

These samples were analyzed using the analytical protocol cited in USEPA Method 6 - Determination of Sulfur Dioxide Emissions from Stationary Sources.

RESULTS

Sample De	scription		<u>s</u>	O,, milliequivalents
96-02-167	Trooswoot	80	#1 2-10-06	0.230
06-03-107	Treesweet	502	#1 3-19-86 #2 3-19=86	0.230
06-03-160	Treesweet	$\frac{50}{2}$	#2 3-19-86	0.133
06-03-109	Treesweet	502	#3 3-19-86 Peroxide BLK 3-19-86	
86-03-170	Treesweet	$^{5O}_2$	beloxide PFV 2-13-60	<0.001

< denotes less than

The remaining samples will be discarded April 21, 1986, unless we are otherwise notified.

Interscience, Inc. operates as an independent contractor and does not guarantee any particular results other than its best efforts.

Respectfully submitted,

INTERSCIENCE, INC.

Michael C. Jackman

Analyst

Approved by,

Timothy M. O'Dell Laboratory Supervisor

Ref: FW-140

MCJ/sgb

B 03-167-170

ENVIRONMENTAL ENGINEERING CONSULTANTS, INC.

LABORATORY ANALYSIS

Client TREESWEET PRODUCTS Source EVAPORATOR Test 3-19-86

FILTER	Run 1	Run 2	Run 3	Blank
I.D. No.	106	107	108	109
Gross Weight, g	0.3053	0.3439	0.3855	0.2766
Gross Weight, g	0.3055	0.3439	0.3857	0.2768
Average Weight, g	0.3054	0.3439	0.3856	0.2767
Tare Weight, g	0.2786	0.2807	0.2786	0.2761
Net Weight, g	0.0268	0.0632	0.1070	0.0006

				1
ACETONE RINSE	Run 1	Run 2	Run 3	Blank
I.D. No.	250	251	252	152
Volume, ml	175	180	200	100
Gross Weight, g	105.9549	102,4364	105.8386	67.8455
Gross Weight, g	ic5.9549	102.4368	i05. 8391	67.8460
Average Gross, g	105.9549	102.4366	105.8389	67.8458
Tare Weight, g	105,9335	102,4252	105.8299	67.8453
Acetone Residue, g	0.0009	0,0009	0.0010	
Net Weight, g	0.0205	0.0105	0.0080	0.0005

			<u>. </u>	1
TOTAL PARTICULATE, g	0.0473	0.0737	0.1150	

Acetone Rinse Blank Residue=(blank weight)(rinse volume)/(blank volume)

Maximum Allowable Residue=(0.00001 of acetone weight)(0.7857 g/ml)

Each component was weighed to a constant weight, meaning a difference of no more than 0.5 mg or 1 percent of total weight less tare weight, whichever is greater, between two consecutive weighings, with no less than 6 hours of dessication time between weighings.

Comments:

Laboratory Analyst

Best Available Copy FIELD DATA LOG

PLANT_	TREESWEET	SOURCE	EVAPORATOR	

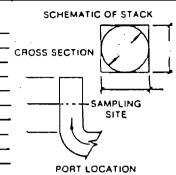
NOZZĻ	E I.D. NO. #8
DIA 1	. 240
DIA 2	. 241
DIA 3	. 241
AVERAGE	-269.241

FINAL VOLUME _	150.311
INITIAL VOLUME	108.500
NET VOLUME	41.811

RUN NO	<u>/</u>
DATE	-19-86
OPERATORS	FINIX & BURDUX
METER BOX NO	<i>EE</i> C-2
FILTER NO	106

NOMOGRAPH VALUES								
Δн@	C FACTOR							
Tm	AVG DP							
%H2O	T '							
REFERENCE	K= 4.20 2.75							

BAROMETRIC PRESSURE 30.05
STATIC PRESSURE
AMBIENT TEMPERATURE
PHORE LENGTH
PROBE LINER PYREY
PURT LENGTH 234"
PORT DIAMETER
METER SYSTEM LEAK-CHECK
ORSAT LEAK-CHECK
SAMPLE BAG LEAK-CHECK
·



TRAVERSE POINT NUMBER	Ť1	PLING ME	STACK TEMP (I _a) *F		AD	ORIFICE METER	GAS SAMPLE VOLUME	DRY GAS METER TEMP	PROBE IFMP	SAMPLE 80X TEMP	TEMP OF GAS LEAVING LAST	PUMP VACUUM GAUGE
	CLOCK	SAMPLE		I △ PSI	(V△ PSI	(AH)	(Vm) It ³	(Im)*F	۰F	۰F	IMPINGER .F	ın , Hg
	0836						108.500					
		2.5	133	,70		1.93	110,23	87	245	253	58	6
2		5	133	,68		1.87	111.95	88	244	245	54	7
3		7.5	135	.63		1.73	113.66	88	242	2.35	53	7
4		10	137	.50		<i>l. 38</i>	115, 23	89	238	238	56	6
5		12.5	139	.48		1.32	116.75	89	239	242	58	6
. 6		15	141	.47		1.29	118.23	90	240	244	59	6
7		17.5	141	.80		2. 20	120.05	90	240	242	58	10
. 8		20	144	.81		2.23	121.95	91	240	239	59	10
9		22.5	145	.75		2.06	123,80	91	242	247	60	10
10		25	145	.86		2.37	123.72	92	243	246	60	11
\mathcal{U}		27.5	147	.78		2.15	127.59	92	244	244	59	10
12		30	146	.80		2.20	129.43	92	2 44	245	58	10
1		32.5	147	.78		2.15	13/.25	92	244	248	56	10
2		.35	148	.82		2.26	133.06	93	242	254	55	11
3		37.5	147	.80		2.20	134.87	93	241	251	55	10
. 4		40	148	.77		2.18	136.65	93	241	253	55	10
5		42.5	149	. 68	,	1.87	138.42	93	241	254	54	9
6		1. 5	149	.70		1.93	140.15	93	241	253	54	9
7		47.5	150	.68		1.87	141.85	93	242	256	54	9
8		50	153	.68		1.87	143.57	94	243	255	54	9
9	-	52.5	158	,66		1.82	145.26	94	249	258	53	9
10		55	159	-68		1.87	146.97	94	251	255	53	10
1/		57.5	159	. 68		1.87	148.65	95	252	255	54	10
12		60	160	ES		1.79	150, 311	95	257	260	54	9
			100					1-			· · · ·	
	0939			_	1					-	-	
	-151		3513	_	20,5-5-	46.41		2201			+	
		 -	37,2		1::-	12. ((,			 	
			1964	_	 			9225-		-	+	
TOTAL					 		 	1			 	
AVERAGE	· · · · ·	 	606%	_	0,5230	1.93		552%		+ -	-	
MENAGE		`-	10001		J	1.15	1	1776~		<u> </u>	1	

STATIC PITOT LEAK-CHECK @ 15 sec	v
IMPACT PITOT LEAK CHECK @ 15 sec	1
TRAINLEAK RATE @ 60 sec 0.00 cf@	0/2 In

ENVIRONMENTAL ENGINEERING CONSULTANTS, INC.

VOLUME OF LIQUID	 	IMPINGER OR VOL	WEIGH UME (m	
WATER COLLECTED	1 1	2	3	4
FINAL	309	106	0	272.4
INITIAL	100	100	0	279.5
LIQUID COLL.	209	6	O:	123
TOTAL VOLUME	The state of the s	227	. 4	1.00

Γ	GAS MEASUREMENTS									
	TIME	co,	0,	CO	N,					
٦										
2										
3										
4										

Best Available Copy

FIELD DATA LOG TREESWEET EVAPORATOR SOURCE _ SCHEMATIC OF STACK 30.05 AUN NO _ BAROMETRIC PRESSURE_ DATE 3-19-86 STATIC PRESSURE ____ OPERATORS FINK & ALROYS DIA 1 CROSS SECTION AMBIENT TEMPERATURE _____ DIA 2 PHORE LENGTH __ DIA 3 107 FILTER NO __ PROBE LINEA . AVERAGE .241 PURT LENGTH _ SAMPLING NOMOGRAPH VALUES SITE PORT DIAMETER -189.100 _ C FACTOR_ FINAL VOLUME METER SYSTEM LEAK-CHECK _ _ AVG DP_ 150,400 INITIAL VOLUME. %H2O - 38% ORSAT LEAK-CHECK _ 38.503 NET VOLUME __ REFERENCE . SAMPLE BAG LEAK-CHECK _ PORT LOCATION

TRAVERSE POINT NUMBER		PLING ME	STACK TEMP (I,) °F	HE VEL(OCITY AD	ORIFICE METER	GAS SAMPLE VOLUME	DRY GAS METER TEMP	PROBE	SAMPLE BOX TEMP	TEMP OF GAS LEAVING LAST	PUMP VACUUM GAUGE
	CLOCK	SAMPLE	' •	I 🛆 Psi	(√∆ Ps1	(ΔH) .	(Vm) Itā	र्गक अर्थ	∙F	*F	IMPINGER *F	ın . Hg
	1/12						150,600					
(2.5	152	.73		1.69	152.25	89	256	265	60	8
2		5	153	.78		1.81	154.04	89	247	245	50	9
3		7.5	154	.70		1.62	155.71	89	245	247	50	8
4		10	157	.58		1.35	157.18	90	246	251	52	6
5		12.5	160	.60		1.39	158, 61	90	247	251	54	7
6		15	163	.75		1.74	160, 20	90	247	752	55	9
7		17.5	166	. 99		7.30	162.02	91	246	250	60	/3
8		20	172	1.02		2.37	163,89	91	246	250	62	14
9		22.5	173	1.05		2.44	145.88	90	247	249	64	15
10		25	172	.95		2.20	167.65	90	249	25.3	64	14
ll		27.5	172	.89		2.06	169.44	90	249	255	65	14
12		.30_	173	.82		1.90	171.15	91	250	248	66	12
										B		1
									_	1		L
		32.5	171	.75		1.74	172.40	91	252	249	64	11
		35	165	.73		1.69	174.57	91	249	250	59	10
3		37.5	159	.68		1.58	176.20	91	248	251	59	9
4		40	156	.68		1.58	177.84	91	248_	251	59	9
5		42.5	154	165		1.51	179.45	92	247	244	59	9
6		45	152	165		1.51	181.07	92	245	251	57	9
7		47.5	151	,28		.65	182.50	92	246	250	56	4
ව		50	150	. 25		,58	183.55	92	247	251	55	4
9	_	52.5	149	, 30		.70	184.66	92	252	250	52	5
ω	-	55	149	.58		1.35	186.16	92	253	248	53	7
Ц		57.5	156	.56		1.30	187.61	92	248	249	54	7
12		60	163	.58		1.35	189.108	92	246	250	55	පි
						1						
	1214											
			33+2		14.600 -	\$8,4 €		2180				
			1504		T			CHOF				
TOTAL		 			1	 	1	 ''	-	<u> </u>		
AVERAGE			62000	† — —	0.9142	1.60		55! °C				†

STATIC PITOT LEAK-CHECK	(@ 15 sec	
IMPACT PITOT LEAK CHECK	(
TRAIN LEAK RATE 🛭 60 sec	0.00 d@	16 in

ENVIRONMENTAL ENGINEERING CONSULTANTS, INC.

	VOLUME OF LIQUID		IMPINGER OR VO	WEIGHT	
	WATER COLLECTED	1 1	2	3	4
ļ	FINAL	342	198	0	287.8
1	INITIAL	100	100	0	275.4
	LIQUID COLL.	242	98	0	12.4
	TOTAL VOLUME	14.74	352	- 4	21 (1) and 1

GAS MEASUREMENTS								
TIME	co,	ο,	co	М,				

SIGNATURE

Best Available Copy FIELD DATA LOG

			BATTA EGG		
PLANT	TREE SWEET	7	SOURCE	EVAPORATOR	
DIA 1 DIA 2 DIA 3 AVERAGE		AUN NO 3 DATE 3-19-86 OPERATORS FINK & BURRO METER BOX NO EEC 2 FILTER NO 108 NOMOGRAPH VALUES	STATIC P AMBIENT PHOHE LI PROBE LI PORT LEF	RIC PRESSURE 30.00 RESSURE	CROSS SECTION SAMPLING SITE
FINAL VOL	DLUME 190.006	TM AVG DP MH20 TI REFERENCE K = 2.10	ORSAT L	YSTEM LEAK-CHECK EAK-CHECK BAG LEAK-CHECK	PORT LOCATION

TRAVERSE POINT NUMBER	TI	PLING ME	STACK TEMP (T _s) ° F	HE	OCITY AD	ORIFICE METER	GAS SAMPLE VOLUME	DRY GAS METER TEMP	PROBE 1f MP	SAMPLE BOX TEMP	1EMP OF GAS LEAVING LAST	PUMP VACUUM GAUGE
į	CLOCK	SAMPLE		(△ Psi	(VA PSI	(∆H)	(Vm) It ³	(Im)°F	۰F	۰۴	IMPINGER .F	ın . Hg
	1327						190,006					
		2.5	160	.70		1.47	191.66	93	253	242	58	7
2		. 5	(62.	. 70		1.47	193.20	93	245	Z40	5752	7
3		7.5	165	,66		1.39	194.68	94	245	241	51	7
3 4		10	168	.65		1.37	196.14	94	2 1 0	239	51	7
5		125	169	.68		1.43	197. 70	95	241	242	53	8
6_		15	171	.75		1.58	199.16	94	239	246	53	9
7		17.5	172	.95		2.00	200.85	94	244	242	54	/2
8		20	173	.96		2.02	202.67	94	248	246	55	13
9	· .	22.5	169	.87		1.83	204.45	94	252	243	55	10
10		25	166	.76		1.60	206.03	95	254	245	58	9
(1		27.5	165	.66		1.39	207.62	95	253	245	57	8
12		30	166	.54		1.13	209.06	95	251	245	58	
												ļ
		32.5	163	,75		1.58	210.70	95	252	251	60	9
2		. 35	162	.72		1.51	2/2.32	95	246	250	57	9
3		37.5	163	.64		1.34	213,86	95	243	250	57	8
4		40	164	.62		1.30	215.35	95	241	25/	58	8
5		42.5	166	.65		1.37	216.85	95	243	251	59	8
6		45	169	. 70		1.47	218.40	95	242	257	58	9
7		47.5	172	. 70		1.47	219.95	95	242	250	59	9
8		50	175	.80		1.68	221.58	95	243	252	58	11
9		52.5	178	. 81		1.70	223, 26	95	245	250	59	12
10		55	176	. 72		1.51	224.85	95	248	251	61	10
`11		57.5	175	.68		1.43	226.38	95	249	252	62	10
12		60	172	.45		.95	227.646	95	250	251.	62	7
	1428											
			4041	_	20 , 20±″	35.9-?		2370			-	
			1657		[3,7, 1	1	115°F			+	
TOTAL												
AVERAGE			675%		0.84.7.	1.50		555%				

STATIC PITOT LEAK-CHECK @ 15 sec	
IMPACT PITOT LEAK CHECK @ 15 sec	V
TRAIN LEAK RATE & 60 sec 0.02 cf	@15 In

ENVIRONMENTAL ENGINEERING CONSULTANTS, INC.

VOLUME C			IMPINGER OR VOL	WEIGHT	_
WATER CO	LLECTED	1 [2	3	4
FINAL		360	256	0	284.3
INITIAL		100	100	0	272.0
LIQUIDC	OLL.	260	156	0	12.3
TOTALV	DLUME		428	-3	21.ψy

	GAS MEASUREMENTS										
TIME CO, O, CO N,											
	TIME										

PORT LOCATION

SAMPLING DATA FORM FOR SO2

Plant name TREESWEET PRODUCTS	City FT. PIBECE
Sample location EVAPORATOR STACK	Date
Operator C. Fink	Sample number $SO_2 \neq 7$
Barometric pressure, (in.) Hg 30.05	Probe length m (ft) 3 F7.
Probe material	Probe heater setting
Meter box numberAUTO SAMPLOR	Meter calibration factor (Y)
Ambient temperature, °C (°F)	Sample point location
Initial leak check 0.00 p. @ 10" Vac.	Sample purge time, min
Final leak check O.OOp. C 10" Vac	Remarks USE VOL. FLOWEATE AROY PARTICULATE RUN #1

Sampling time, min	Clock time, 24 h	Meter Cants —Sample —volume, —2 (ft 3)	Sample flow rate setting, l/min (ft ³ /min)	Sample volume metered (ΔV_m) , ℓ (ft ³)	Percent deviation, a	Dry gas meter temp, °C (°F)	Impinger temp,
	0730	000					
5		098	1.02	4.90	- 2.2	N/A	62
10		201	1.00 -	5.15	2.8	<u> </u>	64
15		301	1.00	5,00	-0.2		64
20		401	1.00	5.00	-0.2	4	64
	0750		·				•
					-		
Total 20	•	Total 20.05 L		ΔV avg 5.0/	Avg dev	Avg N/A	Max temp

a Percent deviation = $\frac{\Delta V_m - \Delta V_m \text{ avg}}{\Delta V \text{ avg}_m} = 100.$

Volume = Meter Courts x .05 Yeart

SAMPLING DATA FORM FOR SO2

Plant name The Sweet Products	City FT. AERCE
Sample location <u>EVAPORATOR</u> STACK	Date 3-19-86
Operator Co FINK	Sample number SO2 # 2
Barometric pressure, 🍩 (in.) Hg 30.05	Probe length m (ft)3 F7.
Probe material PYREX	Probe heater setting 5.0
Meter box number AUTO-SAMPLOK	Meter calibration factor (Y) $/.\omega$ 4
Ambient temperature, °C (°F)	Sample point location 18" From Stack Wall
Initial leak check O.OO for C 10" VAC	Sample purge time, min
Final leak checkO.01 lan @ 10' VAC	Remarks Use Ubl. Flowrate from Particulate Run #2

Sampling time, min	Clock time, 24 h	Meter Cauts Gample -volume,	Sample flow rate setting, l/min (ft ³ /min)	Sample volume metered (ΔV_m) , ℓ (ft ³)	Percent a deviation, a	Dry gas meter temp, °C (°F)	Impinger temp,
	1000	000					
5		098	1.00	4.90	- 2.0	N/A	68
10		197	0.99	4.95	-1.0	(66
15		297	1,00	5.00	0.0		65
20		400	1.02	5.15	3.0		66
	1020					4	
		·			•		
Total 20		Total 20.00 (ΔV n 5.00 l	Avg dev	Avg	Max temp

^a Percent deviation =
$$\frac{\Delta V_m - \Delta V_m \text{ avg}}{\Delta V \text{ avg}_m}$$
 100.

Volume = Meter Court x 0.05 4/court

SAMPLING DATA FORM FOR SO2

City FT. PIECE Plant name TRITESWEET PRODUCTS 3-19-86 Sample location EVARCEATOR STACK Operator C. FINK Sample number $SO_2 \neq 3$ Barometric pressure, 🍻 (in.) Hg 30.00 Probe length m (ft) Probe material PYREX Probe heater setting Meter calibration factor (Y) 1.004 Meter box number AUTO-SAMPLER Sample point location 18" From Stack Will Ambient temperature, °C (°F) Initial leak check 0.00 lm € 10" VAC

Final leak check 0.00 lm € 10" VAC Sample purge time, min 20 min Remarks Used Vol. Flowerte from Particulate Pur # 3

Sampling time, min	Clock time, 24 h	Meter (ainty Sample Volume, L-(ft ³)	Sample flow rate setting, l/min (ft ³ /min)	Sample volume metered (ΔV_m) , ℓ (ft ³)	Percent deviation, ^a	Dry gas meter temp, °C (°F)	Impinger temp,
	1222	000					
5		(00	1.00	5.00	-0.6	NIA	67
10		204	1.00	5.20	3,4		66
15		305	,99	5.05	0.4		66
20		402	.98	4.85	- 3.6		65
	1242					V	
					*		
Total		Total 20.10 L		ΔV s, 03 /	Avg dev	Avg	Max temp

^a Percent deviation = $\frac{\Delta V_{m} - \Delta V_{m} \text{ avg}}{\Delta V_{m} \text{ avg}_{m}} = 100.$

Volume = meter courts x 0.05 /court

APPENDIX B

PROCESS WEIGHT STATEMENT

STATEMENT OF PROCESS WEIGHT

COMPANY NAME: Treesweet Products Company

MAILING ADDRESS: P.O. Box 189, Ft. Pierce, Florida 33454

SOURCE IDENTIFICATION: Peel Dryer

SOURCE LOCATION:

DATE: March 19, 1986

OPERATION TIME

SAMPLING TIME

START:

START: 0836

END:

1428 END:

Permits 35 TPH

ELAPSED TIME:

IDLE TIME DURING CYCLE: N/A

DATA ON ACTUAL PROCESS RATE DURING OPERATION CYCLE

MATERIAL: Wet Peel

RATE: 25.75 tons/hr.

MATERIAL:

RATE:

MATERIAL:

RATE:

MATERIAL:

RATE:

MATERIAL:

RATE:

TOTAL PROCESS WEIGHT RATE:

PRODUCT: Dry Feed

RATE: 6.75 tons/hr

REMARKS:

Jan DATE: 5/22/86

TITLE:

PROCESS INPUT CALCULATIONS

Peel Moisture*

78.9%

Feed Moisture*

19.5%

- = 9 lbs feed/box x 1,500 boxes/hr x 100 19.5
 ----100 78.9
- = 51,505 lbs/hr
- = 25.75 tons/hr
- * Samples were collected at the end of each particulate run. Composite samples of wet peel and feed were prepared for laboratory analysis.

Values for lbs feed/box and production, boxes/hr, were provided by Treesweet.

APPENDIX C

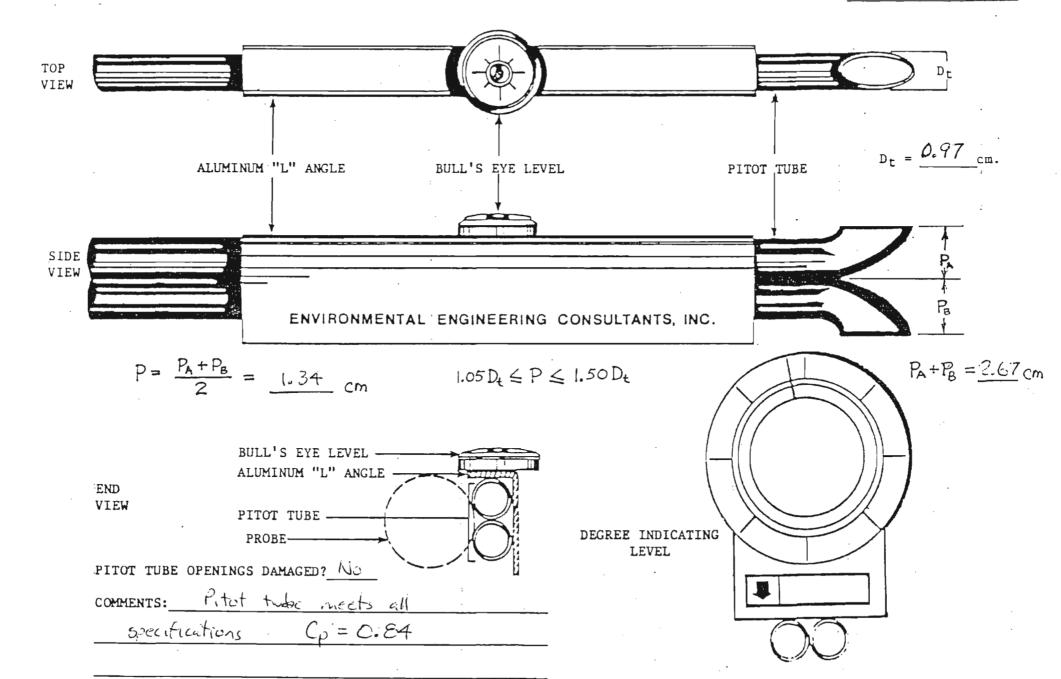
CALIBRATION DATA

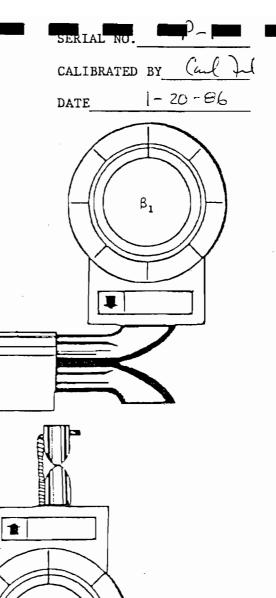
SUMMARY OF EQUIPMENT CALIBRATION

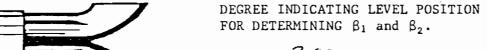
Equipment	Calib. Date	Place	Method	Results
Nozzle #8	03-19-86	On-site	3 measurements w/vernier caliper	Dn=0.241 in.
Pitot Tube	01-20-86	EEC, Inc.	EPA Alt. Method	Cp=0.84
Console EEC-2	10-10-85	EEC, Inc.	Wet Test Meter	Y=1.003 ^H@=2.12
Post-Test Check	03-25-86	EEC, Inc.	Wet Test Meter	Y=0.993
Thermocouples & Dial Thermometer	10-10-85	EEC, Inc.	Comparison to ASTM Thermometer	
Method 6 Console	03-17-86	EEC, Inc.	Wet Test Meter	Y=1.004
Post-Test Check	03-21-86	EEC, Inc.	Wet Test Meter	Y=1.001

CALIBRATED BY: Cal 71

DATE (-20-86

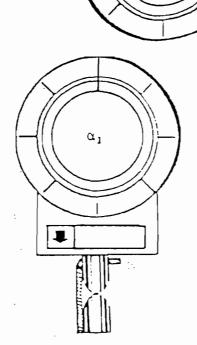






$$\beta_1 = 2.0^{\circ}(<5^{\circ})$$

$$\beta_2 = \frac{1.5^{\circ}}{(5^{\circ})}$$

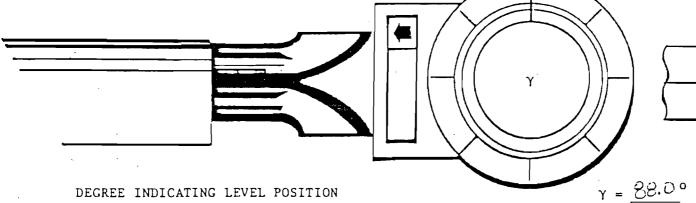


DEGREE INDICATING LEVEL POSITION FOR DETERMINING α_1 and $\alpha_2\,.$

$$\alpha_1 = \underline{\mathcal{C}_{\circ}\mathcal{C}^{\circ}}(<10^{\circ})$$

$$\alpha_2 = \frac{1.0^{\circ}}{(10^{\circ})}$$

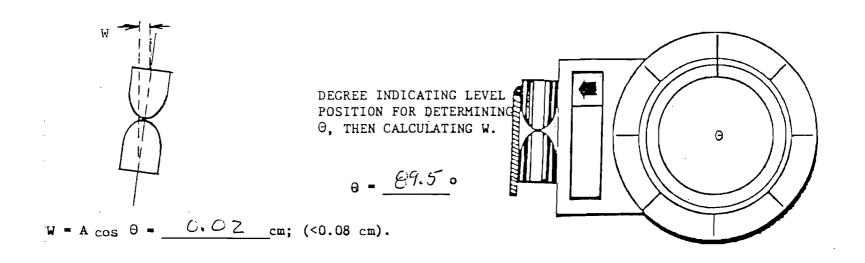
SERIAL NO._____ CALIBRATED BY Carl 7-1 DATE 1-20-86



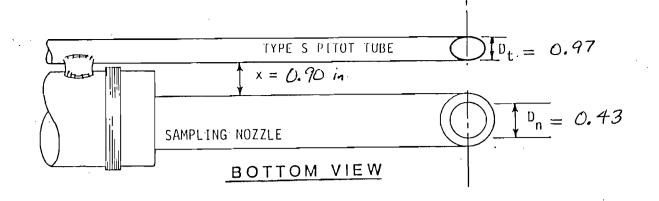
FOR DETERMINING γ , THEN CALCULATING Z.

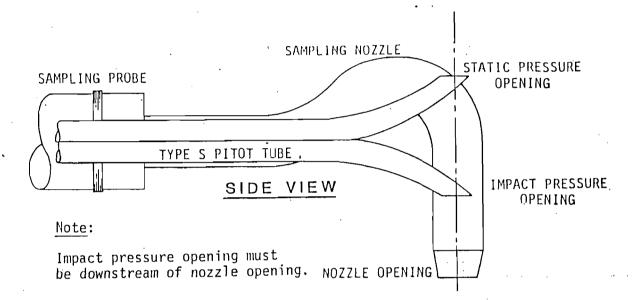
A = DISTANCE BETWEEN TIPS, $(P_a + P_b)$, cm. = $\frac{2.67}{M}$.

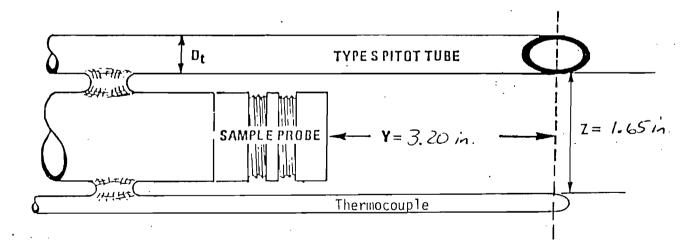
 $Z = A \cos \gamma = \frac{C_c C_9}{\cos \alpha} \cos \alpha \cos \alpha$



PITOT TUBE CALIBRATION: A, W, γ, θ and Z DETERMINATION







SERIAL NO) <i>f</i>	³ -1	
CALIBRATE	D BY:_	Carl	H
DATE	1 - 20	0-86	

PROBE ASSEMBLY CONFIGURATION

ENVIRONMENTAL ENGINEERING CONSULTANTS, INC.

CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS

Environmental Engineering Consultants, Inc.

METER BOX CALIBRATION DATA AND CALCULATION FORM

Barometric pressure, $P_b = 30.053$ in. Hg Calibrated by Gas volume Temperatures Orifice Wet test Dry gas Wet test Dry gas meter Avg^a manometer meter meter meter Inlet Outlet Time (v_d) , setting (V_w) , $(t_w),$ (t_{d.}), (t_d), (t_d), (Θ) , ΔΗ@ Yi (ΔH), ft³ ft³ ٥F ٥F ٥F ٥F in. H_0^10 in. H₂0 min 84 83 84 15 73 1.006 2.04 0.5 5,507 5,580 77 84 B 5 83 1.016 10 2.06 1.0 5.215 5,179 76 84 9.496 85 83 2.09 9.421 15 1.019 1.5 74 87 86 84 16 11.402 2.0 -999 11.611 2.17 87 86 74 8 4 10,254 11.5 10.027 .993 2.17 3.0 83 73 82 10 84. 10,015 10.252 -986 4.0 2,20

1,003

Avg

2.12

ΔH, in. H ₂ O	Δ <u>II</u> 13.6	$Y_{i} = \frac{V_{w} P_{b}(t_{d} + 460)}{V_{d}(P_{b} + \frac{\Delta H}{13.6}) (t_{w} + 460)}$	$\Delta H@_{i} = \frac{0.0317 \ \Delta H}{P_{b} (t_{d} + 460)} \left[\frac{(t_{w} + 460) \ \Theta}{V_{w}} \right]^{2}$
0.5	0.0368	(5501)(30.053)(544)=1006	$\frac{0.317(0.5)}{30.053(544)} \left[\frac{533(15)}{5.507} \right]^{3} = 2.04$
1.0	0.0737	(3.215) (30.047) 543 = 1.016	$\frac{0.0317(1)}{30.047(543)} \left[\frac{537(10)}{5.215} \right]^2 = 2.06$
1.5	0.110	$\left(\frac{9,496}{9,421}\right)\left(\frac{30.647}{36.157}\right)\left(\frac{544}{536}\right) = 1.019$	
2.0	0.147	$\left(\frac{11.40z}{11.61}\right)\left(\frac{30.047}{30.268}\right)\left(\frac{546}{534}\right) = .999Z$	$\frac{0.317(2.0)}{30.047(546)} \left[\frac{534(16)}{11.402} \right]^{2} = 7.17$
3.0	0.221	(10.027) (30.047) (576) = .992	$\frac{0.03.7(30)}{30.053(546)} \left[\frac{531(11.5)}{10.027} \right]^{2} = 2.17$
4.0	0.294	10.252) (30.01) (513) = ,9855	

If there is only one thermometer on the dry gas meter, record the temperature under $t_{\rm d}$.

ENVIRONMENTAL ENGINEERING CONSULTANTS, INC.

RECHECK OF ORIFICE AND DGM CALIBRATION

CALIBRATION CHECK BY: Typon Durious	DATE: 3-25-86	CONTROL BOX NO. EEC-Z	
LEAK CHECK OF METER SYSTEM	BAROMETRIC P	RESSURE ("Hg) 30.43	09

	-ΔH ("H ₂		ΔНd ("H ₂ O)	Wet Meter Volume (ft ³)	Final Dry Meter Volume (ft ³)	Initial Dry Meter Volume (ft ³)	Net Dry Meter Volume (ft ³)	Wet Test Meter (^O F)	Dry Te Inlet (OF)	st Meter Outlet (°F)	Time (Min)	Vacuu Setti ("Hg
ĺ		/	2.0	10,069	254.871	244.718	10.153	68	70	73	14	15
	X	\	2.0	10.090	265.070	254.871	10.199	68	71	73	14	15
	7	\int	2.0	9,991	275.183	265,070	10.113	68 .	72	74	14	15
•	01		02	03			04	05	06	07	08	

Perform three calibration runs at a single intermediate orifice meter setting (ΔHd) with the vacuum set at the maximum value reached during the previous test series. If the calibration factor γ deviates by <5% from the initial calibration factor γ, then the dry gas meter volumes obtained during the test series are acceptable. If γ deviates by >5%, recalibrate the metering system, and use whichever meter coefficient (initial or recalibrated) that yields the lowest gas volumes for each test run.

PYROMETER/THERMOMETER CALIBRATION

IDENTIFICATION	DATE	REFERENCE TEMP. OF(ASTM-Hg)	INDICATION TEMP. OF	REFERENCE MEDIUM	CORRECTION
EEC-Z DGM THERMOCOUPLE ROX,	10-10-85	- 38	38	ICE WATER	O
		116	118	HOT WATER	+ 2
•		211	214	HOT WATER	+ 3
		426	4.25	HOT OIL	-l .
	CALIBR	ATEO B4: 8	MR.	ingus	
			3		
, ng 1					

MASS FLOWMETER/TOTALIZER CALIBRATION

CALIBRATION CHECK BY:	C. Fril	DATE:	3-17-86	CONTROL	BOX NO.	AUTO-SAMPLER
LEAK CHECK OF METER SYSTE	м		BAROMETRIC PRI	ESSURE ("Hg)_	30.0	2

ΔΗw ("H ₂ O)	Initial Wet Test Volume(ft ³)	Final Wet Test Volume(ft ³)	Wet Test Volume (ft ³ @STP)	Wet Test Volume (1pm)	Wet Test Temp. (°F)	MFM Total Counts	MFM Indicated Flow (Total L)	MFM Actual Flow (Lpm)	Time (Min.)	Y
_	0.000	20. 225	20.151	1.008	71.7	406	20,300	1.015	20.0	0.993
	0.000	20.555	20.461	1.023	72. 2	4.01	20. DSD	1.003	20.0	1.020
_	0.000	20.500	20,414	1.021	72.0	409	20.450	1.023	20.0	0.998

court rate = 100

$$Vw (STP) = Vw Yw (528^{OR}/(Tw + 460)) ((P bar + (\Delta Hw/13.60))/29.92)$$

$$\ell_{pm} = ft^3 @ STP \times 28.316$$

Total Flow = Total counts x
$$5\ell$$
/count rate

Yavg. =
$$l pm(w) / l pm(MFM) = 1.004$$

MASS FLOWMETER/TOTALIZER CALIBRATION POST-TEST CHECK

CALIBRATION CHECK BY:	(: Lil	DATE:	3-21-86	CONTROL	BOX NO	AUTO-SAMPLER
LEAK CHECK OF METER SYSTEM_			BAROMETRIC PRESSU	RE ("Hg)_	30,	.15 in Hg

count rate = 100

ΔHw ("H ₂ O)	Initial Wet Test Volume(ft ³)	Final Wet Test Volume(ft ³)	Wet Test Volume (ft ³ @STP)	Wet Test Volume (1 pm)	Wet Test Temp. (°F)	MFM Total Counts	MFM Indicated Flow (Total 1)	MFM Actual Flow (Lpn)	Time (Min.)	Y
_	0.000	20, 205	20.341	1.017	68.5	407	20, 350	1.018	20.0	0.999
	0.000	20.195	20, 273	1.014	70.0	405	20.250	1.013	20.0	1.001
	0.000	20.195	20.273	1.014	70.0	404	20.200	1.010	20.0	1.004

$$Vw (STP) = Vw Yw (528^{\circ R}/(Tw + 460)) ((P bar + (\Delta Hw/13.60))/29.92)$$

$$L_{pm} = ft^3 @ STP x 28.316$$

Total Flow = Total counts x 5ℓ /count rate

APPENDIX D

CHAIN OF CUSTODY

Environmental Engineering Consultants, Inc.

Sample Chain of Custody

Plant TREESWEET PROD	UCTS		
Source Sampled WASTE MEAT	EVANCENTOR	Date Sample	ad 3-19-86
Şa	ample Recover	¥	
Sample Code and Description	Recovery		Oate and Time of Recovery
Filter # 106 - Run #1 Filter # 107 - Run #2	Œ,	Д,	3-19-86
File # 108 - Rm #3			
Gesh # 1 - Ren # 1 hash # 2 - Ren # 2 lash # 3 - Ren # 3	<u> </u>	<u> </u>	
Ace one Black - Blank	AR I		
Sample Recovery By: Typo	1 Dinan	Title TEC	CHNICIAN
Sample Received By:SA	4E	Title	
(Upon Recovery)		ample	
Date & Time of Recept	S	torage	
Sample Received By: Same	€	Title	
(For Analysis)	,	ample	
Date & Time of Recept.		torage	
	<u>Analysis</u>		
Sample Code Method of Ana		Date & Time of Analysis	Signature of Analyst
Filto 106 Brasimisti		4-10-86	_ BBinamo
Filter 108 Filter 109			
Braker 251 Braker 252			
Beaher 152	 . 	¥-	

STON, TEXAS 77215		GROSS	DISCOUNT	NET AMOUNT
VENDOR INVOICE	DATE			
Air Permit for Modificat to Feedmill Dryer/Evapor	ion ator			1,000.00
			DER	
			MAY 1 4 1986	
			RAÓW	
			ig .	
	Air Permit for Modificat to Feedmill Dryer/Evapor	Air Permit for Modification to Feedmill Dryer/Evaporator	Air Permit for Modification to Feedmill Dryer/Evaporator	Air Permit for Modification to Feedmill Dryer/Evaporator DER MAY 14 1986 BAQM

TSP 3001 (1/86)



NATIONAL BANK OF COMMERCE OF SAN ANTONIO P.O. DRAWER 121 SAN ANTONIO, TEXAS 78291 (512) 225-2511

CHECK NO.

3290

Transpers I.000dal's00cts

May 9, 1986

AMOUNT

1,000.00

The TreeSweet Companies

PAY TO THE ORDER OF

(4.71)

Department of Environmental Regulations

INVALID OVER \$5,000 UNLESS COUNTERSIGNED

000				,
 1 STREET		-	-	4.

	STATE OF FLORIDA	
DEPARTMENT	OF ENVIRONMENTAL REGU	LATION

76124

OR APPLICATION FEES AND MISCELLANEOUS REVENUE

Scurce of Revenue 001031 Application Number

P 408 533 201
RECEIPT FOR CERTIFIED WAIL
NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

NOTION
and Reverse)
Scont to Bernard W. McBee, J:
Sent to Bernard W. MCD
Mr. Bernars
Street and No.
Street and
P.O., State and ZIP Code
P.O., Stole 5
18
1
Postoge
1
Cortified Fee
Special Delivery Fee
F89
Restricted Delivery Fee
Return Receipt Showing Return Receipt Showing
Return Receipt Showing to whom and Date Delivered to whom sint Showing to whom,
to whom at easing to whom
Return Receipt on Delivery
Date and Add
Date, and Date, and Fees TOTAL Postage and Fees
2 TOTAL POS
Postmark or Date
o postman
4/16/86
20 4/10/
<u> </u>
TOTAL Postage and Fees TOTAL Postage and Fees 4/16/86
&/
• 1

PS Form 3811, July 1983	Put your address in the "RET reverse side. Failure to do this being returned to you. The re you the name of the person delivery. For additional fees to available. Consult postmaster for service(s) requested. 1. " Show to whom, date a consult postmaster."	URN TO" space on the swill prevent this card from turn receipt fee will provide elivered to and the date of the following services are for fees and check box(es)
	Mr. Bernard W. Treesweet Produ 1000 Bell Avenu	cts Company, Inc
	Registered Insured XX Certified COD Express Mail	P 408 533 201
DOMESTIC RETURN RECEIPT	Always obtain signature of ac DATE DELIVERED. 5. Signature – Addressee X 6. Signature – Agent X 7. Date of Delivery 8. Addressee's Address (ONL)	ansdell

FILE COPY

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

April 15, 1986

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Bernard W. McBee, Jr. Treesweet Products Company, Inc. 1000 Bell Avenue Ft. Pierce, Florida 33482

Dear Mr. McBee:

RE: Permit Application Nos. AC 56-117649, -117671, and -117673; Boilers 3, 4, and Peel Dryer/Waste Heat Evaporator/Scrubber, Respectively

As a major modification, your applications to modify these existing sources will be processed by this office. Please make all further correspondence regarding these applications directly to our attention.

A review of your aforementioned applications to modify indicates they are incomplete. The following is required to complete your application.

For boilers No. 3 and No. 4

- 1. Section II-A: All changes requested are to be included (e.g. operational hours).
- 2. Section II-B: Estimate these dates.
- 3. Section II-D: Include all construction and operation permits.
- 4. Section II-E: Is this correct? If not, change as required.
- Section II-F: Complete this sub-section.
- 6. Section III-A: Complete this sub-section including complete description of boiler. (i.e., manufacturer(s), model No(s)., design heat capacity, etc.).
- 7. Section V-6: Provide an accurate flow diagram as your facility exists. This should clearly depict the relationship between different pieces of equipment both spatially and process related.

Mr. Bernard W. McBee, Jr. Page Two April 15, 1986

For: Peel dryer/waste heat evaporator/scrubber

8. Same as items 1-7 above (except item 6 where a description of this combined system is requested rather than that of a boiler).

Upon receipt of the above information processing of your applications will resume. Please refer to this letter in your response.

Should there be any questions, please call M. G. Phillips at (904)488-1344 or write to me at the above address.

Sincerely,

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

Bureau of Air Quality
Management

CHF/MP/s

cc: Tim Powell

Wayne E. Griffin

2745 S.E. MORNINGSIDE BOULEVARD PORT ST. LUCIE, FLORIDA 33452



STATE OF FLORIDA

BOB GRAHAM

JACOB D. VARN SECRETARY

1,2

NEDS NO. 10-3960-050-0009-0 APIS NO. 51-56-0009-08

MINOR

DEPARTMENT OF ENVIRONMENTAL REGULATION

December 8, 1980

SOUTH FLORIDA SUBDISTRICT BRANCH OFFICE

APPLICANT:

PERMIT/CERTIFICATION NO. AC-56-35634

Mr. Richard E. Smith, Gen. Mgr. Treesweet Products Co. P. O. Box 189
Fort Pierce, Florida 33454

COUNTY: St. Lucie

PROJECT: Construct Process Steam Boiler #4

EXPITU BI

CONSTRUCT:

An industrial process steam boiler, a 1000 H. P. Johnson, fire tube, Model 538AHG, S.N. S4619, burning natural gas at a max. rate of 16,148 ft³/hr producing max. of 16.9x10⁶ Btu/hr input, or No. 2 diesel oil (0.16%S) standby fuel at max. rate of 124 gals/hr, producing a max. of 17.3x10⁶Btu/hr input, discharging through a 36 inch I.D. stack, 38.5 ft. above ground level, operating 24 hrs/day, 6 days/wk, 52 wks/yr.

IN ACCORDANCE WITH:

The engineering plans/data submitted with the construction permit application, DER Form 17-1.122(16) signed by Mr. Wayne E. Griffin, P.E., received on

October 14, 1980 and subsequent information

received on October 23, 1980.

LOCATED AT:

1000 Bell Avenue, Fort Pierce, St. Lucie Co., UTM Zone 17, East 565,300 meters, North 3,030,400

meters.

SUBJECT TO:

GENERAL CONDITIONS one (1) through twelve (12) and SPECIFIC CONDITIONS one (1) through four (4).

PAGE 1 01 3

DEPARTMENT OF ENVIRONMENTAL REGULATION

	ACT	ON N	10
ROUTING AND			
TRANSMITTAL SLIP	ACT	ION E	OUE DATE
1. TO: (NAME, OFFICE, LOCATION)	10	, ,	Initial
Bill Thomas -Bt	H	M	Date
2.			Initial
Tellchesse	·		Date
3. DER			Initial
v 1			Date
4. MAR 3 1 1986		-	Initial
RAOM			Date
REMARKS: BAQM		INF	ORMATION
Bill -		Revi	ew & Return
This mess of paper represen	20	Revi	ew & File
	1 1	Initia	al & Forward
all of construct and current			
ophate permit from our file	و		
ophote permit from our file Breifly, this is what I found:		DIS	POSITION
Boilu No. 4 - had AC and AO		Revi	ew & Respond
permits.		Prep	are Response
· ·			My Signature
Boiles No. 3 - no Al on file but			Your Signature
has current so			Jp Meeting
Description of the description		Inve	stigate & Report
Dryer/W.H.E has had various		Initi	al & Forward
AC pernito issued. at appears			ribute
however that the dier may have			Processing
been installed w/o AC permit.			al & Return
reld more	DAT	1/2	8/86
neld more	ьно	NE	, -
	4	131	-5053
T. Pavel			S.C.

PERMIT NO.: AC-56-35634 - Treesweet Products Co., Process Steam Boiler #4 APPLICANT: Mr. Richard E. Smith, General Manager

SPECIFIC CONDITIONS:

1. Construction of this installation shall be completed by January 1, 1981. Application for permit to operate to be submitted by February 1, 1981. This construction permit expires on April 1, 1981 following an initial period of operation for appropriate testing to determine compliance with the Rules of this Department.

Test the emissions for plume density by visible emissions test, (aka Visible Determination of Opacity), in accordance with the code of Federal Regulations 40 CFR Part 60, Appendix A, Method 9, entitled "Visual Determination of Opacity of Emissions from Stationary Sources".

Notification of all tests must be given at least two (2) weeks prior to the test date(s) in order that a representative may be present. The testing must be accomplished at approximately the maximum designed rates as stated in the application. Failure to submit the input rates or operation at conditions which do not reflect actual operating conditions may invalidate the data, Chapter 403, Section 403.161(1)(c), Florida Statutes(FS). In cases wherein alternate fuels are involved, the "dirtiest" fuel is to be used, i.e., fuel oils instead of natural gas, for the complete test(s).

The plume density test will be made by a DER or EPA currently certified reader at fifteen (15) second intervals for a minimum of a one (1) hour period. The readings will be entered on the attached "Record of Visual Determination of Opacity" sheets. Xerox copies of the reader's certification are to be attached. The observation results are to be submitted to this office along with the application for an operation permit.

- 2. The emissions limiting standards for this boiler stack are defined in Section 17-2.05(6) Table II E(2), Chapter 17-2, "Air Pollution", Florida Administrative Code(FAC); visible emissions shall have a density equal to or less than 20% opacity.
 - 3. Submit all correspondence to the Department of Environmental Regulation, South Florida Subdistrict Branch Office at Port St. Lucie.
 - 4. The permittee agrees to comply with regulatory changes applicable to this type of facility which may be proposed and promulgated by this Department in order to abate air pollution sources.

Expiration Date:April 1, 1981	Issued this day of Technology, 180
Pages Attached.	STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION
	Signature

PAGE ____3 ___ OF ____3___.

Warren G. Strahm Subdistrict Manager

WGS:ghm
DER FORM 17-1.122(63) 4/4 (1/80)

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHEAST FLORIDA DISTRICT BRANCH OFFICE

2745 SOUTHEAST MORNINGSIDE BOULEVARD PORT ST. LUCIE, FLORIDA 33452



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

PERMITTEE:

Bernard W. McBee, Jr. General Manager TreeSweet Products Co., Inc. 1000 Bell Avenue Fort Pierce, Florida 33482 APIS No.: 50/56/0009/08 Permit Number: AO-56-112676

Date of Issue: February 14, 1986 Expiration Date: February 14, 1991

County: St. Lucie

Latitude/Longitude: 27°24'11"N/80°20'24"W

Project: Boiler #4

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

OPERATE:

1000 H.P. (17 MM BTU/hr.) Johnson fire tube process steam boiler, Model 538 AHG, burning natural gas (16,148 ft. 3/hr. maximum) or No. 2 diesel oil (124 gal./hr.) as backup fuel; discharging pollutants through 36 inch I.D. stack, 38.5 ft. above ground; unlimited hours of operation.

IN ACCORDANCE WITH:

The original construction permit, AC-56-35634; "Application for Renewal of Permit to Operate Air Pollution Sources", DER Form 17-1.202(4), received November 22, 1985.

LOCATED AT:

1000 Bell Avenue, Fort Pierce. UTM Coordinates: Zone 17, 565.3 km East/3030.4 km North.

SUBJECT TO:

GENERAL CONDITIONS one (1) through fifteen (15) and SPECIFIC CONDITIONS one (1) through four (4).

PERMITTEE:

Bernard W. McBee, Jr., General Manager

TreeSweet Products Co., Inc.

APIS Number: 50/56/0009/08
Permit Number: A0-56-112676
Date of Issue: February 14 1

Date of Issue: February 14, 1986 Expiration Date: February 14, 1991

SPECIFIC CONDITIONS:

- 1. The emission limiting standard for this source is less than 20 percent opacity as referenced in FAC Rule 17-2.600(5). Compliance with the standard is accomplished by performing EPA Method 9 as referenced in FAC Rule 17-2.700.
- 2. Compliance with the visible emissions standard shall be tested for prior to renewal of this permit. At least 14 days prior notice will be afforded the DER Southeast Florida Subdistrict Office in Port St. Lucie. Test results must be submitted to this office within 45 days after the test date.
- 3. During the compliance test, the source shall be fired with the "worst-case" fuel permitted, 124 gal./hr. No. 2 Diesel, + 10%.
- 4. This permit will expire on 2/14/1991 . No later than 60 days prior to this date, the Permittee shall apply for a renewal of the permit on forms provided by the Department. Along with the application, test results showing compliance with the standard must be submitted. The test must have been run no earlier than 90 days from the date of expiration. At least 14 days prior notice shall be afforded the DER Southeast Florida Office in Port St. Lucie so that a representative may witness the test.

AP:tps/17

Issued this 14th day of February, 1986

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

Alexander Padva, Ph.D. Acting District Manager

4 Pages attached.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTH FLORIDA SUBDISTRICT BRANCH OFFICE

2745 SOUTHEAST MORNINGSIDE BOULEVARD PORT ST. LUCIE, FLORIDA 33452



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

ussued 6/4/82

APIS #51/56/0009/03

APPLICANT:

William E. Parker

Executive Vice President TreeSweet Products Company

Post Office Box 189

Fort Pierce, Florida 33454

PERMIT/CERTIFICATION

NO. AO 56-55650

COUNTY: St. Lucie

PROJECT: TreeSweet Products Co.

Boiler #3

This permit is issued under the provisions of Chapter 403, Florida Statutes and Chapter 17-2, Florida Administrative Code. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications attached hereto and made a part hereof and specifically described as follows:

OPERATE: A 1000 H.P. (33.5 MMBTU/HR) Johnson Firetube Boiler fired by natural gas with #2 fuel oil standby discharging pollutants to the atmosphere 25 feet above ground level.

IN ACCORDANCE WITH: Application to Operate Air Pollution Sources dated February 16, 1977 and Application for Renewal dated May 10, 1982.

LOCATED AT: 1000 Bell Avenue, Fort Pierce

UTM COORDINATES: Zone 17; 565.4 KmE, 3030.6 KmN

SERVING: A citrus processing plant (SIC# 2037)

SUBJECT TO: General Conditions 1 - 12 and Specific Condition 1 - 6.

No AC permit an record.

PERMIT NO: AO 56-55650 - TreeSweet Products Company APPLICANT: Mr. William E. Parker, Executive Vice President

SPECIFIC CONDITIONS:

- 1. Compliance testing shall be conducted for the sources covered by this permit prior to renewal in accordance with the methods specified below.
- 2. Emission limiting standard is as follows:

In accordance with Florida Administrative Code Rule 17-2.610(2), visible emissions from this boiler shall not equal or exceed an average of 20% opacity.

3. The compliance test report shall include emissions tested by the following methods:

Source/Emission Point	Pollutant	Test Method
Boiler #3	Visible Emissions	EPA Method 9

The compliance test report shall be submitted to the Department in accordance with Florida Administrative Code (F.A.C.) Rule 17-2.700(7).

- 4. Testing of emissions should be conducted using the fuel and/or process input which are expected to result in the highest emissions and within ten percent (10%) of the rated capacity of the source. Otherwise the Department may require the test to be repeated or modify the permit to reflect tested rates and/or fuels.
- 5. The Department shall be notified of expected test dates at least ten (10) days prior to compliance testing.
- 6. Copies of all reports, tests, notifications or other submittals required by this permit shall be submitted to the Department of Environmental Regulation, South Florida Subdistrict Branch Office.

STATE OF FLORIDA DEPARTMENT OF

MAR 31 1986

A056-2187

PURSUANT TO THE PROVISIONS OF SECTION 403.061 (16) OF

CHAPTER 17-4 FLORIDA ADMINISTRATIVE CODE, THIS PERMIT IS ISSUED TO:

W. E. Parker, Vice President

FOR THE OPERATION OF THE FOLLOWING:

waste heat evaporator system, including

dust collector

LOCATED AT: 1000 Bell Ave., Ft. Pierce, St. Lucie County

LAT: 27°23'58" LONG: 80°20'36"

FORM 1-1

OPERATION PERMIT CONDITIONS FOR AIR POLLUTION SOURCES

(An "X" indicates applicable conditions)

DATE: 10.16 -73

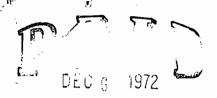
PERMIT NO.

AO 56-2187

- July 1, 1975, shall not exceed a Ringelmann Number Two or an equivalent 40% opacity. The density of visible emissions for all sources after July 1, 1975, shall not exceed a Ringlemann Number One or an equivalent 20% opacity. If the presence of uncombined water is the only reason for failure to meet these visible emissions standards, such a failure shall not be in violation of this rule. (Chapter 17-2.04 (1) (a) (b) (d)
- - (★) Particulates
 () Sulfur Oxides
 () Fluorides
 () Plume Density
 () Hydrocarbons
 -) 3. According to revised Chapter 17-2 (Revised 1-18-72), this facility must be modified, up graded, or eliminated in order to comply with applicable emission limitations. * To insure compliance pursuant to the time limitation specified in Section 17-2.03(2), Chapter 17-2, Florida Administrative Code, the following steps toward compliance are made a condition of this permit.
 - (A) Submit on or before a final control plan for complying with Chapter 17-2, Florida Administrative Code. This plan is subject to approval by the regional office.
 - (B) Submit on or before a copy of contract(s) for modification/control equipment and/or fuels necessary to comply with Chapter 17-2.
 - (C) On or before ______, construction and/or modification must be initiated. Submit 60 days prior to this date construction permit applications and necessary information.
 - (D) Construction and/or modifications toward compliance must be completed by ______. Submit no later than ______ confirmation of this condition.
 - (E) Submit on or before proof of compliance. This must include any changes in the construction permit application as submitted, and a final engineering report and to prove compliance. (test results and/or calculations)
 - * The applicable emission limitation for this facility is:

 Section Chapter 17-2,
 Florida Administrative Code.
- (X) 4. Submit for this facility, each calander year, on or before March l an emission report for the preceding calander year containing the following information.
 - (A) Annual amount of materials and/or fuels utilized.
 - (B) Annual emissions.
 - (C) Any changes in the information contained in the permit application.

Best Available Copy





office 461-3800

Southeast Regional Office

State of Florida Department of Air and Water Pollution Control

AO-56-2187

Application For Permit to Construct Air Pollution Sources

· · · · ·	
Applicant (Owner or authorized agent)	W. E. Parker V.P. Florida Operations
Owner or authorized agent)	(Name and Title)
T. I.	Treesweet Products Co.
Name of Establishment	(Corporation, Company, Political SD, Firm, etc.)
Mailing Address	P. 0. Box 189
Location of Pollution Source	1000 Bell Avenue, Fort Pierce
Fig. 1. Control of the control of th	(Number and Street) (City)
•	St. Iucie, Florida 33450
	(County) Long. 80° 20' 36", Lat. 27° 23' 58"
Nature of Industrial Operation	Citrus Processing Plant SIC CODE 2033& 2037
Permit Applied For:	Project Engineer:
	H. R. Heath
New Source	Name
	Treesweet Products Co.
Existing Source after modification	Firm
	P.O. Box 189, Fort Pierce, Florida 33
	Mailing Address
Existing Source	Harold K Heath
·	Signature (13 (101))
	8013
Relocation, expansion or reconstruction	Florida Registration Number
	Ange A
For Department's Use Only Permit N	No.

The undersigned owner or authorized representative of Treesweet Products Company
is fully aware that the statements made in this form and the attached exhibits and statements constitute the application for a Construction Permit from the Florida Department of Air and Water Pollution Control and certifies that the information in this application is true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to comply with the provisions of Chapter 403, Florida Statutes and all the rules and regulations of the Department or revisions thereof. He also understands that the Permit is non transferable and, if granted a permit, will promptly notify the Department upon sale or legal transfer of the permitted establishment.

Signature of owner or agent.

William E. Parker

Vice President, Florida Operations
Name and Title

Date: August 24, 1972

*Attach letter of authorization.

Estimated Schedule of Construction of the Project

This equipment installation will be completed during December 1972 and will be put into operation as son as possible after completion.

2-C

BEST AVAILABLE COPY GULF MACHINERY CO., SAFETY HARBOR, FLA. JOB NO. PART CUST. FILE 2-1705 TREESWEET PRODUCTS E-1705 DEVICE FT. PIERCE, FLA. DATE EVAP STACK WET PEEL RELIEF STACK 20000 C.F.M. 70 000 #/HZ NO NORMAL PEEL PRESSES 33% MOIST. 140°F SATURATED VENT 30 THE PARTICULATE PRESSED PEEL 35,000 */HR 74% MOIST crecycle vapors WATER IN CONCENTRATE 8226 #/HR PRESS LIQ. 3000 SPM. 35.000 #HE 38.9° 5x WASTE 8°5x FROM TOWER, 43, 226 F/HR HEAT 71.5% HOIST decant, EVAPORATOR FUEL 4- limonene (46,774 /HZ EVAP) DRYER 40000 100-500 F/HE CFHGAS TO STORAGE SVAP FEED 55.000 #/HR IN EFFECT COND 5,82° £x d-LEFFLUENT PLANT WASTE 48 5PM WITTE WHER 5 GPM 3190 FPM 200 prim EVAP CONDENSATE 4.0.0. 48 GPM 9 20 Ex DEIED PEEL 2810 ppm 13 226节任日 C.O. D. COND WATER @ 7% MOISTURE 3000 SPM 120°F TO TOWER TO SPRAY FIELD ORWASTE THEATINENT 101 - 101 160.0

Information Regarding Pollution Sources and Proposed Control Facilities

1. Estimated cost of proposed control facilities \$ 750,000.00

A. Raw Materials and Chemicals Used.

- 2. Prepare and attach an 8½" x 11" flow diagram, without revealing trade secrets, identifying the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit where gaseous emissions and/or airborne particulates are involved and where finished products are obtained.
- 3. Include an 8½" x 11" plot plan showing location of manufacturing processes and location of outlets for airborne emissions. Relate all flows to the flow diagram.
- 4. Submit an 8½" x 11' plot plan showing the exact location of the establishment and points of discharge in relation to the surrounding area, residences and other permanent structures and roadways.

I General

Description

Description

Description

Description

Description

Description

Tons/day, Content

Lbs./day, etc.

Type

Approximate
Contaminant
Content

Flow
Diagram

Type

Dry Weight

1. Wet Citrus Peel 770 Tons Per Solid Neg. Infeed.

2. Oil Mill Effluent, Plant Floor Water & spent caustic Plant Vaste

3. Lime 1/2 Ton Per Solid Neg. On Peel

Day

Tomation

Toward

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3-C

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B. Fuels			40 C		· · · · · · · · · · · · · · · · · · ·	-	
Type (Be Spe	ecific) Dail	y Consumption	An C	ross Maximu	m Heat Output	Relate Flow Dia	
Natural Ga	as 40,00	0 Cu. Ft./	Hr. 1,0	000 BTU/(lu. Ft.	Dryer F	uel
5 July 2 4 4 6 11 5	000 00	0 Cu. Ft./	Day				
No. 6 0il C. Products	Standby	fuel as Requ	ired for	Gas Contra	act	Dryer F	uel
<u>.</u>	Descrip	otion		Daily Produc ay. Lbs/Hr.			÷
	Cattl	e Feed	145 +	- Tons/Da	ay	 '.'.	
विकेश के जाता । जिल्हा	D-Lim	onene Oil	3300#	/Day	e e e		
D. Normal oper	ation: Hours/Day _	22 : · ·	Day/Wee	.ka ta 156]	Days/Week	Service of the servic	
1				42.			
If operation	or process is season	al. describe:	Seasonal	-rrom De	ecember 15	th to	
Julye 1	5th, average	7 months/y	ear., as	dictated			
					· 3116 ·		
•			3	· .	•		
						1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	-1
in strait	Continues of the second	311 00	1.6.1. 1114	mile ,		3 55 5 7 7 15	
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		• •	girt.	•. •		٢	
-	··						
				. :-			
		:				· ' ·	
		II Identification	of Air Con	taminants			
Compounds of:		Also —	: .		·		
Chlorine		Hydrocarbon	s	2	Acid Mists		
Fluorine $\mathbb{P}_{(\Sigma_{M})}$: Malloret n	Smoke	Troff boots		Odors	•	
Nitrogen		Fly Ash			Radioisotopes	;	
Sulfur	П	Dusts		<u>ত্</u> বি	Other		

Specific Compounds _

III Air Pollution Control Devices

Contaminant	Control Device	Relate to Flow Diagram	Operating Efficiency	Conditions (Particle Size Range, Temp. etc.)
Particulate	Scrubber	Waste Heat Evaporator	99.9%	.1mm @ 140°F
Particulate	Bag Filter	Cooling Air	99.9%	1 micron @ 145° F

Provide a brief description of the control device or treatment system. Attach separate sheets giving details regarding principle of operation, manufacturer, model, size, type and capacity of control treatment device and the basis for calculating its efficiency. Show any bypasses of the control device and specify when such bypasses are to be used and under what conditions,

This application is for construction of equipment to reduce air pollution from an existing source and incidently by use of strong waste water from existing concentrate plant to also reduce water contamination.

Briefly application is to modify existing feed mill equipment and dehydrators and tinstall waste heat evaporator. Purpose is to control air pollution from the feed mill by recirculation of 66% of air presently used and also to scrub exhaust air before releasing to atmosphere which reduces total particulate discharge and also reduces temperature of released air.

Part of the feed for the evaporator is strong waste water from the concentrate plant which is concentrated and put on the feed which reduces the overall water contamination from the plant.

This system uses a water cooling tower for barometric cooling water. This practice is a definite water conservation measure.

NOTE: APPLICATION FORM SUMMARY

IV. Contaminant Balance

From contaminant content in raw materials, waste products, and manufactured products, summarize daily contaminant flow:

		Pe	ounds Contan	ninant per Day	
·		Inp	ut	Out	put
List Raw Materials: Wet Citrus Peel Oil Mill Waste Effluents	en de la companya de				
Fuel Go(Ak ranf.		: () . C = x.7°	ur Kartinga		· .
List Manufactured Products:			F1	::	ni.
Cattle Feed	•				
D-Limonene Oil List Solid Wastes:	·	• 13		e'	
30.50#/Hr. Particulate Stack Em				671#/	'Day
Present Stack Emissions List Liquid Wastes:			•	i tim	. 144.7
101 Gals./Minute to Waste Tr	eatment ,,,,,c	11. 3 ° 1.		3520#/D	and ay
OD Diverted from Spray Field t	o Evaporato	3,880	#/Day	9 i : (:	:)·(
OD Diverted from Spray Field t	Totals	11,630	#/Day	41:9 <u>1</u> #/1	ay
Loui ustaw star. Programme to the bear out no try hour control of the plant.	TOTAL TOTAL TOTAL				, • . •• .
•					
Airborne Wastes (Total input minus total output)			; .	•	;
Total Airborne Particulat	e Emmitted:	30.5#/Hr		i,	1
					**

Note: If more than one contaminant, specify each
Contaminants recovered in control devices should be shown as either a liquid or a solid waste.

V. Discharged Emissions to Atmosphere

A. Discharge Points and Design Conditions

Discharge Point Description	Relate to Flow Diagram	Height above Ground (ft.)	Cross Sect. Area (sq. ft.)	Periods of Flow Hrs./ Hrs./ Day Wk.	Temp. of Discharge
	Evaporator		7.8	22 Hrs./Day	140°F
Cooling Air Sta	ck Dried Peel	35'-0"	3.79	22 hrs./Day	140° F
Tarregion Car	m doctor de la contra de la contra de	That is	(1111,87	27. (1. (2. (2. (2. (2. (2. (2. (2. (2. (2. (2	1 (1) 1 [1] 1 (1)
Staronia, ic	FRANCISCO SECURIO SECURIO SE SECU	** i :	<u>ictirten ees</u> t		1 2 · ·

B. Tabulation of Discharged Contaminants

Harry State	t. P	(' ' '	. :	otal Contaminants	Discharged		•
Discharge	Flow Rate	Particulat	es	Other Con	taminants (F ⁻ , SO _X , NO _X etc.)
Point - Relate to Flow Diagram	at Std. Cond.	Gr/ft3 (Std.Cond.)	lbs./ Day	Cr/ft3 (Std. Cond.)	lbs/ Day	Gr/ft3 (Std.Cond)	Ibs/ Day
		-1/1 07 -;"	1.000	1:1	2 10	1 2/1 0.2	
_Stack	20,000		660		<u>.</u>		
e santa sangka <u>santa</u>	order .	o mg of the	in indept		4. 5	f	· ; ;
Tank Co ode	101 GPM	od III be		ed in	1056	. (** : 1 1	
	វឌ្ឍភ ៦០ ៤៩	AL ron 1	T		#/Day	Th	
Cooling Air Stack	13000 CFM		13		-		
		*					
Totals			671		1056		
	1.						;

VI. Treatment and Disposal of Liquid and Solid Waste

1. Identify the contaminants which will be discharged as liquid or solid wastes.

Carbohydrate dust from Feed Mill = 30#/Hr. Dust from cooling air 1/2 lb/hr.

Carbohydrates, Hydrocarbons as soluble solids = 160#/Hr. of COD

2. Describe the treatment and disposal of liquid and solid wastes. Indicate the concentrations and volume of individual contaminants in treated wastes before disposal.

- a) Exhaust gasses and water vapor from existing feed dryers are used for energy in Waste Heat Evaporator. First effect reducing tube bundles are continually scrubbed by condensate to substantially reduce total particulate contaminate emission into atmosphere. As energy from gas and vapor exhaust from dryers is used by the waste heat evaporator both to volume and temperature of exhaust is substantially reduced. Total volume emission is approximately 20,000 cu. ft./minute @ 140°F with total particulate not to exceed 30#/Hr.
- b) Plant strong waste water contained at least 60/70% of existing plant water contamination is fed into waste heat evaporator and used on the cattle feed produced. The contaminated fluids from the evaporator are to be pumped to the existing plant waste disposal system. Load from this source is approximately 101 GPM with a total COD demand of 160#/Hr. This will reduce the overall loading on the plant waste water system.
- c) Cooling air from dried feed contains an average of 24.5 lbs of dust which will be cleaned by mechanical filtration to eliminate 99.9% of dust above 1 micron. Dust removed by the filtration will be processed into pellets and added to the feed output at the rate of 24 lbs/hr. 13000 CFM air at 145° F will be discharged containing less than 1/2 lb of dust per hour.

AMORA DE MANGE E COMO LA CONTRACTOR

8-C

STATE OF FLORIDA DEPARTMENT OF AIR AND WATER POLLUTION CONTROL

CELETRICITION PERMIT

FOR Treesweet Products Company
Post Office Box 189

Fort Pierce, Florida 33450
PERMIT NO. AC-73020 DATE January 31, 1973
PURSUANT TO THE PROVISION OF SECTION 403.061 (16) OF CHAPTER 403, FLORIDA STAT-
utes and chapter 17-4 florida administrative code, this permit is issued to: W. E. Parker, Vice President
FOR THE CONSTRUCTION OF THE FOLLOWING:
Waste Heat Evaporator System Including Scrubber and Dust
Collector .
LOCATED AT: 1000 Bell Avenue, Fort Pierce, St. Lucie County, Flo 80°20'36" 27°23'58"
IN ACCORDANCE WITH THE APPLICATION DATED AUGUST 24, 1972
AND IN CONFORMITY WITH THE STATEMENTS AND SUPPORTING DATA ENTERED THEREIN,
ALL OF WHICH ARE FILED WITH THE DEPARTMENT AND ARE CONSIDERED A PART OF THIS
PERMIT.
THIS PERMIT SHALL BE EFFECTIVE FROM THE DAYS OF ITS ISSUANCE UNTIL $12/1/73$
AND SHALL BE SUBJECT TO ALL APPLICABLE LAWS OF THE STATE AND THE RULES AND REG-
ULATIONS OF THE DEPARTMENT.

FORM 1-J

VINCENT D. PATTON EXECUTIVE DIRECTOR

BEST AVAILABLE COPY

STATE OF FLORIDA

DEPARTMENT OF POLLUTION CONTROL

CONSTRUCTION PERMIT PROVISOS

AIR POLLUTION SOURCES

Permit No. AC-73020

Date: 1/31/73

- [X] 1. Construction of this installation shall be completed by June 1, 1973.
- [X] 2. This construction permit empires on December 1, 1973 following an initial period of operation for appropriate testing to determine compliance with the Rules of the Florida Pollution Control Board.
- [X] 3. All applicable rules of the Department including design discharge limitations specified in the application shall be adhered to. The permit holder may also need to comply with county, municipal, federal, or other state regulations prior to construction.
- [X] 4. The applicant shall continue the retention of the engineer of record for the inspection of the construction of this project. Upon completion the engineer shall inspect for conformity to construction permit applications and associated documents. A report of such inspection shall be submitted by the engineer to the Department of Pollution Control for consideration toward the issuance of an operation permit.
- [x] 5. This control equipment shall be tested for total particulates within 180 days after it is placed in operation. These test results are required prior to our issuance of an operation permit and shall be submitted in duplicate to the DPC Southeast Florida Regional Office, 200 S. E. 6th Street, Suite 504, Ft. Lauderdale, Florida 33301.
- [x] 6. The operation of this installation shall be observed for visible emissions in accordance with Method 9 Visible Determination of the Opacity of Emissions from Stationary Sources (Federal Register, December 23, 1971). The observation results are required prior to our issuance of an operation permit, and shall be submitted in duplicate to the DPC Southeast Florida Regional Office, 200 S.E. 6th St., Suite 504, Ft. Lauderdale. Fla. 33301.
- [] 7. Stack sampling for total particulate or other contaminant emissions shall be conducted if found by the DPC Florida Regional Office to be necessary as a basis for the issuance of an operation permit.
- [x] 8. Satisfactory ladders, platforms, and other safety devices shall be provided/available as well as necessary ports to facilitate the carrying out of an adequate sampling program.

- 9. The following items are required prior to our issuance of an operation permit in addition to the engineer of record's report of inspection:
 - (a) An emission report for total particulates and sulfur oxides based upon actual operations.
 - (b) A tabular summary of actual records of frequencies and durations of soot blowing as well as boiler blowdown characteristics and disposal practices.

These items are required prior to our issuance of an operation permit and shall be submitted in duplicate to the DPC Florida Regional Office,

- 1 10. There shall be no discharges of liquid effluents or contaminated runoff from the plant site.
- 1 11. All fugitive dust generated at this site shall be adequately controlled.

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[X] 12. This construction permit is subject to approval by the Board of the Florida Department of Pollution Control.



November 24, 1976

no construct permit

Mr. George Humbert Dept. of Environmental Regulation 806 South Sixth Street Fort Pierce, Florida 33450

Dear George:

As you may recall, back in March of this year I visited the Fort Pierce D.E.R. office for the purpose of disclosing the fact that TreeSweet was purchasing a new 40,000#/Hr. Gulf Machine dryer and an additional peel press. In addition to the above equipment, we have purchased two new cyclone dust removing fans and a shaker screen.

We believe that our feed mill is now state of the art and will be one of if not the most efficient and pollution free in the state. For your records you may note that the new dryer is tied into the waste heat evaporator in the same manner as the old equipment.

All four of our stack tests, one waste heat and three boiler, are scheduled for January 12, 1977.

Thank you,

TREESWEET PRODUCTS CO.

General Manager

RES:fh

RECEIVED

NOV 29 1976

Dept. of Environmental Reg. Fort Pierce

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHEAST FLORIDA SUEDISTRICT

2745 SOUTHEAST MORNINGSIDE BOULEVARD POST ST. LUCIE, FLORIDA 33452



BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

AL MUELLER SUPDISTRICT MANAGER

PERMITTEE:

Treesweet Products, Co., Inc. Bernard W. McBee, Jr., General Manager P.O. Box 189 Fort Pierce, Florida 33454 I.D. Number: APIS #51/56/0009/01

Permit Number: AO-56-64438 Date of Issue: March 29, 1983 Expiration Date: March 29, 1988

County: St. Lucie Latitude/Longitude: Section/Township/Range:

Project: Peel Dryer/Waste Heat Evaporator

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

OPERATE:

A Peel Dryer/Waste Heat Evaporator processing 35 tons/hour wet peel; burning 40,000 ft.3/hour natural gas (40 MM BTU-hour); equipped with a wet scrubber. Hours of operation are normally 16 hours/day, 5 days/week and 30 weeks/year.

IN ACCORDANCE WITH:

Application for Renewal of Permit to Operate Air Pollution Source(s), DER Form 17-1.202(4), received 1/4/83.

LCCATED AT:

1000 Bell Avenue, Ft. Pierce. UTM: Zone 17, 565.6 km East/3031.3 North.

SUBJECT TO:

GENERAL CONDITIONS one (1) through fifteen (15) and SPECIFIC CONDITIONS one (1) through eight (8).

.

PERMITTEE: Treesweet Products Co., Inc. Bernard W. McBee, Jr., General Manager I.D. Number: APIS #51/56/0009/01 Permit Number: AO-56-64438 Date of Issue: March 29, 1983 Expiration Date: March 29, 1988

SPECIFIC CONDITIONS:

- The Permittee shall test annually for particulate and visible emissions using EPA
 Methods 1, 2, 3, 5 and 9 as referenced in Florida Administrative Code (FAC) Rule
 17-2.700. Test dates shall be either on or prior to the anniversary date of this
 permit. At least 14 days prior notice will be afforded to the DER Southeast Florida
 Subdistrict.
- 2. During the compliance test, the process rate shall be 35 tons/hour wet peel, + 10%.
- The emission limiting standard for particulate is defined by the Process Weight Table, 17-2.610(1), FAC Rule. The visible emissions standard is an opacity less than 20% as given in 17-2.610(2), FAC Rule.
- 4. The Permittee shall take necessary precautions to prevent unconfined emissions of particulate matter as deemed necessary by the Department and as referenced in 17-2.610(3)(c), FAC Rule.
- 5. Natural gas is the only permitted fuel for this source. In the event of emergency conditions, when the natural gas supplied is curtailed, fuel oil may be burned only upon immediate notification to the Port St. Lucie Office (within 24 hours of such a curtailment) so that a visible emissions test may be scheduled; the next regularly scheduled stack test must then be performed while firing fuel oil. If the Permittee at some later date wishes to use fuel oil in normal operations, an application must be submitted to the Port St. Lucie Office and a stack test will be rescheduled within 30 days of such a modification.
- 6. The permittee shall submit an Annual Operating Report for each calendar year, on forms provided by the Department, no later than March 1 of the following calendar year.
- 7. The stack sampling facilities shall be maintained and designed as given in 17-2.700(4)(c)., FAC Rule.
- 8. This permit will expire on March 29, 1988 . No later than 60 days prior to this date, the Permittee shall apply for a renewed operating permit on forms provided by the Department.

Note: Based on 1/14/83 stack test results, this source is expected to emit 27.5 lb/hr particulate x 2400 hr/yr = 33 TPY. Allowable emissions based on Process Weight Table and 35 TPH wet peel are 30.6 lb/hour or 36.7 TPY.

RMD:tps/8

Issued this 29th day of March, 1983

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

Roy M. Duke

District Manager

4 Pages attached.

GulfCoast Engineering Company

Consulting Engineers

October 29, 1981

Mr. Al Mueller, P. E. Branch Manager Department of Environmental Regulation 2745 S. E. Morningside Blvd. Port St. Lucie, Florida 33452

> Re: Peel-Dryer/Waste Heat Evaporator #2 Permit #AC-56-40775

Gentlemen:

We are in receipt of your notice concerning the upcoming expiration of the noted permit.

The noted permit was obtained for a proposed expansion of the Peel Dryer/Waste Heat Evaporator #1 which did not occur. It is anticipated that any future expansions will be a modification of the Peel Dryer/Waste Heat Evaporator #1 permit. As a result, we intend to let the permit noted above expire without renewal.

Should you have any questions, please contact our office at your earliest convenience.

Sincerely.

Wayne E. Griffin, P. E.

Vice President

WEG:SS

xc: Dick Smith Dick Taubman according to our files
this AC permit was rever
used (Drier never built.)

CEINEI

NOV 2 1989

Dept. of chrimonalental Reg.



BOR GRAHAM
GOVERNOR
Victoria J. Tschinkel
NAROSENEVARA
SECRETARY

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTH FLORIDA SUBDISTRICT BRANCH OFFICE

April 2, 1981

Mr. R. E. Smith, Gen. Manager Treesweet Products Co. P. O. Box 189 Fort Pierce, Florida 33454

Dear Mr. Smith:

Re: Treesweet Products Co., construct citrus pulp/peel fire dryer #2, Renewal of AC-56-25094

This office has completed the review of your request to extend the expiration date of the referenced permit which was originally issued on December 10, 1979.

Your request for an extension of the expiration date is approved. Your new permit number is AC-56-40775 and the new expiration date is December 15, 1981. All the conditions of the original permit shall remain in effect for the duration of this time extension and this letter of approval must be attached to the original permit.

Should you have any questions please contact this office, telephone 305/878-3890.

Sincerely,

Warren G. Strahm Subdistrict Manager

WGS:ghm

cc: Tallahassee, Records Center



BOB GRAHAM GOVERNOR

JACOB D. VARN SECRETARY

STATE OF FLORIDA

09-02-64

December 10, 1979

SOUTH FLORIDA SUBDISTRICT BRANCH OFFICE

10-2620-050-0045-01 Class B(Minor)

APPLICANT:

R. E. Smith, General Manager

PERMIT/CERTIFICATION NO. AC-56-25094

Treesweet Products, Co. P. O. Box 189

No. No. 30. 2303

P. O. BOX 109

COUNTY: St. Lucie

Ft. Pierce, FL 33450

PROJECT: Construction of pulp

fire dryer #2

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

CONSTRUCTION OF: A citrus pulp, peel fire dryer, using 4.8xl0⁴ft³/hr. natural gas or 6 gal./hr. #6 oil as stand-by fuel (2.3%S), processing 20T/hr. of material, 24 hrs/day, 6 days/week, approximately 32 weeks/year, with emissions controlled by modification of the existing waste heat evaporator from 60T/hr. to 120T/hr. capacity and existing stack, resulting in 99% efficiency removal of particulates, size 1.0mm and smaller.

IN ACCORDANCE WITH: The engineering plans/data submitted with the construction application, DER Form 12-1(Jan 78), signed by Robert S. Sholtes, P.E., received on November 8, 1978, and request for extension, signed by R. E. Smith, received on October 11, 1979.

LOCATED AT: 1000 Bell Ave., Ft. Pierce, St. Lucie County, UTM Zone 17, East 565,550 meters, North 3,031,250 meters.

SUBJECT TO: GENERAL CONDITIONS one (1) through twelve (12) and SPECIFIC CONDITIONS one (1) through four (4).

expily 12/15/80

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 Section 403.161(1), Florida Statutes. Permittee is hereby placed

PERMIT NO.:

AC-56-25094

APPLICANT:

Mr. R. E. Smith, General Manager

on notice that the department will review this permit periodically and may initiate court action for any violation of the "Permit Conditions" by the permittee, its egents, employees, servants or representatives.

- 2. This permit is valid only for the specific processes and operations indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.
- 3. 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 non-compliance, 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.
- 4. As provided in subsection 403.087(6), 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.
- 5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.
- 6. 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 Section 403.111, F.S.
- 7. In the case of an operation permit, 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.
- 8. 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 penalities 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, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.
- 9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.
- 10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.
- 11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.
- 12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation 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.
- 13. This permit also constitutes:

]	Determination of Best Available Control Technology (BACT)
]	Determination of Prevention of Significant Deterioration (PSD)
.]	Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500

SPECIFIC CONDITIONS:

SEE PAGE THREE (3).

TILE DEVER #2

PERMIT NO.:

AC-56-25094

APPLICANT:

Mr. R. E. Smith, General Manager

SPECIFIC CONDITIONS:

- 1. Construction of this installation shall be completed by October 15, 1980 . Application for permit to operate to be submitted by November 15, 1980 .
- 2. This construction permit expires on <u>December 15, 1980</u>
 following an initial period of operation for appropriate testing to determine compliance with the Rules of the Florida Environmental Regulation Commission.
- 3. This waste heat evaporator stack shall be tested for particulates and d-limonene within 30 days after it is placed in operation. These test results are required prior to our issuance of an operation permit and shall be submitted to the Department of Environmental Regulation, 806 So. 6th St., Ft. Pierce, FL 33450, phone 305/464.8525.

Testing of emissions must be accomplished at approximately the maximum designed rates as stated in the application. Failure to submit the input rates or operate at conditions which do not reflect actual operating conditions may invalidate the data (Chapter 403.161(1)(c), Florida Statutes).

Notification of all tests must be given at least two weeks prior to the test date(s) in order that a representative may be present (Chapter 17-2.08(5)(1), Florida Administrative Code (FAC).

4. Stack to be equipped with hardware for the State of Florida, Department of Environmental Regulation, stack sampling team.

Expiration Date:

December 15, 1980

STATE OF FLORIDA

DEPARTMENT OF FRY (ROUMENTAL REGULATION

WARREN G. STRAHM Subdistrict Manager

WGS/GH: dm DER FOHM 17-1.122(63) Page 3 of 3

RULES OF THE ADMINISTRATION 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.

Note: At a formal hearing all parties shall have an opportunity to present evidence and argument on all issues involved, to conduct cross-examination and submit rebuttal evidence, to submit proposed findings of fact and orders, to file exceptions to any order or hearing officer's recommended order, and to be represented by counsel.

FILE

806 SOUTH SIXTH STREET
FORT PIERCE, FLORIDA 33450



BOB GRAHAM GOVERNOR JACOB D. VAHN

SECRETARY

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTH FLORIDA SUBDISTRICT BRANCH OFFICE

December 10, 1979

Mr. R. E. Smith, General Manager Treesweet Products Co. P. O. Box 189 Ft. Pierce, FL 33450

Dear Mr. Smith:

RE: Treesweet Products Co.
AC-56-25094
Construct citrus pulp/peel
fire dryer #2
St. Lucie County

Enclosed is Permit Number AC-56-25094, dated December 10, 1979 to construct the subject pollution source, issued pursuant to Section 403.087 and 403.161, Florida Statutes.

Should you object to this permit, including any and all of the conditions contained therein, you may file an appropriate petition for administrative hearing. This petition must be filed within fourteen (14) days of the receipt of this letter. Further, the petition must conform to the requirements of Section 28-5.15, Florida Administrative Code, (copy enclosed). The petition must be filed with the Office of General Counsel, Department of Environmental Regulation, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32301.

If no petition is filed within the prescribed time, you will be deemed to have accepted this permit and waived your right to request an administrative hearing on this matter.

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

AM/GH:dm

cc: Records Center

Robert S. Sholtes, P.E.

Sholtes & Koogler 1213 NW 6th St.

Gainesville, FL 32601

Sincerely,

Alfred Mueller, Jr. Branch Office Manage

Enclosure DER Form 17-1.122(63)

DER Form 17-1.122(66)

10-3960-050-0009-01 Class B (MINOR) STATE OF FL -0045-01 DEPARTMENT ENVIRONMENTAL REGULATION CONSTRUCTION PERMIT

Treesweet Box:18905

> FL 33450 erce,

AC-56-15012 PERMIT NO.

DATE OF ISSUE December 22, 1978

PURSUANTETO THE PROVISIONS OF SECTIONS 403.061 (16) AND 403.707 OF CHAPTER 403 FLORIDA STATUTES AND CHAPTERS 17-4 AND 17-7 FLORIDA ADMINISTRATIVE CODE, THIS PERMIT IS ISSUED TO: R. E. Smith, General Manager

FOR THE CONSTRUCTION OF THE FOLLOWING: A citrus pulp fire dryer, using 4.8 x 10⁴ ft ³/hr natural gas or #6 oil stand by fuel (2 at 6 gal/hr., processing 20 T/hr. wet peel, 24 hrs/day, 6 days/wk, approximate 32 wks/yr. Emissions controlled by days/wk, approximate

modification of existing waste heat evaporator from 60 T/hr to 120 T/hr. capacity and employing existing stack. Subject to attached permit provisos. # 1,2,3,4,5,7,8,9,10,11,13,14 LOCATED AT 1000 Bell Ave., Ft. Pierce, St. Lucie Co.

North 3,031 meters

IN ACCORDANCE WITH THE APPLICATION DATED November 6

ANY CONDITIONS OF PROVISOS WHICH ARE ATTACHED HERETO ARE INCORPORATED INTO AND MADE A PART OF THIS PERMIT AS THOUGH FULLY SET FORTH HEREIN FAILURE TO COMPLY WITH SAID CONDITIONS OR PROVISOS SHALL CONSTITUTE A VIOLATION OF THIS PERMIT AND SHALL SUBJECT THE

APPLICANT TO SUCH CIVIL AND CRIMINAL PENALTIES AS PROVIDED BY LAW.

December 15, 1979 THIS PERMIT SHALL BE EFFECTIVE FROM THE DATE OF ISSUE UNTIL

OR UNLESS REVOKED OR SURRENDERED AND SHALL BE SUBJECT TO ALL RULES AND REGULATIONS OF THE DEPARTMENT.

Office Makager

DISTRICT MANAGER

GH

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

CONSTRUCTION PERMIT PROVISOS

AIR POLLUTION SOURCES

Permit No. <u>AC-56-15012</u>	
-------------------------------	--

Date December 22, 19

- (x) 1. Construction of this installation shall be completed by October 15, 1979 . Application for permit to operate to be submitted by November 15, 1979 .
- (X) 2. This construction permit expires on <u>December 15, 1979</u> following an initial period of operation for appropriate testing to determine compliance with the Rules of the Florida Environmental Regulation Commission.
- (X) 3. All applicable rules of the Department including design discharge limitations specified in the application shall be adhered to. The permit holder may also need to comply with county, municipal, federal, or other state regulations prior to construction.
- (X) 4. The applicant shall continue the retention of the engineer of record for the inspection of the construction of this project. Upon completion the engineer shall inspect for conformity to construction permit applications and associated documents. A report of such inspection shall be submitted by the engineer to the Department of Environmental Regulation for consideration toward the issuance of an operation permit.
- (X) 5. This waste heat evaporator stack shall be tested for particulates and d-limonene within 30 days after it is placed in operation. These test results are required prior to our issuance of an operation permit and shall be submitted to the Department of Environmental Regulation, 806 So. 6th St., Ft. Pierce, FL, 33450, Phone 305/464-8525
- () 6. The operation of this installation shall be observed for visible emissions in accordance with Method 9 - Visible Determination of the Opacity of Emissions from Stationary Sources (Federal Register, December 23, 1971) by a certified reader. A copy of the reader's certification card is to be submitted. The observation results are required prior to our issuance of an operation permit and shall be submitted to the Department of Environmental Regulation,
- (x) 7. Stack sampling for total particulates or other contaminant emissions shall be conducted if found by the Department of Environmental Regulation Ft. Pierce

 Florida District Office to be necessary as a basis for the issuance of an operation permit.

(x) 8. Satisfactory ladders, platforms, and other safety devices shall be provided/available as well as necessary ports to facilitate the carrying out of an adequate sampling program.

عددد الماعد

- (X) 9. The following items are required prior to our issuance of an operation permit in addition to the engineer of record's report of inspection:
 - (X) (a) An emission report for total particulates based upon actual operations.
 - (X) (b) A tabular summary of fuels used & sulfur content (as received basis).
 - () (c) A tabular summary of actual records of frequencies and durations of soot blowing as well as boiler blowdown characteristics and disposal practices.

These items are required prior to our issuance of an operation permit and shall be submitted to the Department of Environmental Regulation Ft. Pierce Office

- (x) 10. There shall be no discharges of liquid effluents or contaminated runoff from the plant site.
- (X) 11. All fugitive dust generated at this site shall be adequately controlled. This includes, but is not limited to, roadway dust.
- () 12. This permit is associated with a Development of Regional Impact (D.R.I.). It does not waive any other permits that may be required from this or any other State, Federal, or local agency.
- (X) 13. Please be advised that the Department does not condone nor authorize the permittee to by-pass waste materials from either air or wastewater facilities at any time that would result in a violation of the rules and regulations of the Department.

In case of breakdown or lack of proper functioning of the facility causing or likely to cause discharge of improperly treated sewage or air emissions, it shall be the duty of the owner of the facility to promptly notify the Department. In addition to notifying this Department, the permittee shall notify the local County Health Officer.

The owner of the impaired facility causing the violation shall be responsible for any and all damages which may result. If violations of State standards occur, enforcement actions may be initiated.

(X) 14. Stack to be equipped with hardware for the State of Florida, Department of Environmental Regulation, stack sampling team.

RULES OF THE ADMINISTRATION 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.

Note: At a formal hearing all parties shall have an opportunity to present evidence and argument on all issues involved, to conduct cross-examination and submit rebuttal evidence, to submit proposed findings of fact and orders, to file exceptions to any order or hearing officer's recommended order, and to be represented by counsel.

STATE OF FLORIDA



DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTH FLORIDA SUBDISTRICT BRANCH OFFICE 806 SOUTH SIXTH STREET FORT PIERCE, FLORIDA 33450

REUBIN O'D ASKEW GOVERNOR

JOSEPH WILLANDERS, JR. SECRETARY

December 22, 1978

Mr. R. E. Smith, General Manager Treesweet Products Co. 1000 Bell Avenue Ft. Pierce, FL 33450

Dear Mr. Smith

Pursuant to Section 403.061(16), Florida Statutes, your application has been approved by the Department and therefore, we are issuing to you the enclosed permit no. AC-56-15012 which will expire on Dec. 15, 1979.

This permit is not effective unless you accept it, including any and all of the conditions contained therein. If you do not choose to accept it, you must file an appropriate petition for a hearing pursuant to the provisions of Section 120.57, Florida Statutes.

A petition for a hearing must comply with the requirements of Florida Administrative Code, Section 28-5.15 and be filed (postmarked) with the Secretary of the Department of Environmental Regulation at 2562 Executive Center Circle, East, Montgomery Building, Tallahassee, Florida 32301, with a copy to this office within fourteen (14) days from receipt of this letter. Petitions which are not filed in accordance with the above provisions may be subject to dismissal.

Any time limits imposed in the permit are a condition to this permit and are enforceable under Section 403.061, Florida Statutes. You are hereby placed on notice that the Department will review this permit to check for compliance and will initiate enforcement action for violations of the conditions and requirements of this permit.

Your continued cooperation in this matter is appreciated. Please refer to your assigned permit number in all future communications.

May III

Alfred Mueller, Jr./ Branch Office Manager

Branch Office Mana

Sincere

AM/GH/yr

cc: Tallahassee Central Files John B. Koogler, P.E., Sholtes & Koogler Environmental Consultants, 1213 N.W. 6th St., Gainesville, FL 32601 AC-56-15612 (Remark) NW Number A C-56-25094



NOV 0:8 1978

STATE OF FLORIDA

Depr. C. Livironmental Ross

DEPARTMENT OF ENVIRONMENTAL REGULATION

N TO OPERATE ON TO THE PROPERTY OF THE APPLICATION TO OPERATE CONSTRUCT AIR POLLUTION SOURCES WORK

Source Type: [X] Air Pollution [] Incines	rator
Application Type: [X] Construction [] Operation [X]	Modification [] Renewal of DER Permit No.
Company Name: TreeSweet Products Co.	county: Saint Lucie
Identify the specific emission point source(s) addressed in this application: Citrus Peel Dehydration System	tion (i.e.: Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas
Source Location: Street: 1000 Bell Avenue	city: Fort Pierce
	North 30,312,500
Latitude: ° "N.	•
Appl. Name and Title: SAME AS ABOVE	
Appl. Address:	
CECTION I. STATEMENTS	BY APPLICANT AND ENGINEER
A. APPLICANT I am the undersigned owner or authorized representative of Tr	eeSweet Products Co
true, correct and complete to the best of my knowledge and belie pollution control facilities in such a manner as to comply with the	struction/Modification f. Further, I agree to maintain and operate the pollution control source and a provisions of Chapter 403, Florida Statutes, and all the rules and regulations rmit, if granted by the Department, will be nontransferable and I will prompted establishment.
Name of Person Signing (please Type or Print)	Signature of the Owner or Authorized Representative and Title
	Date: 11-6-78 Telephone No.: (305) 461-3800
*Attach a letter of authorization.	
B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA	
formity with modern engineering principles applicable to the treatm	Mailing Address:
Name: Robert S. Sholtes, Ph.D., P.E.	1213 NW 6th St
(Please Type)	Gainesville, FL 32601
Company Name: Sholtes & Koogler	Telephone No.: (904) 377-5822
Environmental Consultants	Date: 11/3/78
(Affix Seal)	

				*
SECTION II:	GENERAL	PROJECT	INFORMA	TION

Α.	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 project involves the installation of one 40,000 #/hr. fire dryer with a
	60,000 #/hr. waste heat molasses evaporator which includes wet scrubbing of
	dryer exhaust gasses as they pass through the system. Dryer will operate at
	about 36,000 #/hr as indicated by the performance figures on the flow diagram
	in this application. This over capacity will permit some future expansion and
	will permit the waste heat evaporator to process approximately 20,000 #/hr of
	contaminated plant waste water. This unit is similar to existing plant system
•	and will result in full compliance with regulations for air pollution sources;
	as indicated by operation and stack emmission test conducted on existing unit.
1.	er to existing bluepint, etoched:
rų; v	new druger seems as existing
	construe mosto head evanuator well be modified from 60,000 #/hs to 120,000#/n
	this is a contract to the second of the seco
₽.	Schedule of Project Covered in this Application (Construction Permit Application Only).
	Start of Construction: August 1st, 1979 completion of Construction: October 15th, 1979
	summer that the production part to start earlier.
C.	Costs of Construction. (Note: show breakdown of estimated costs only for individual components/units of the project serving pollution control purpose. Information on actual costs shall be furnished with the application for operation permit.)
	Separators and recycle gas system on dryer - \$ 66,000
	Wet scrubbing system on evaporator - 96,000
	Fan and separator system on exhaust - 34,000
	Fair and Separator System on Canadas - 54,000
_	
D.	Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates. AC 73020
	- Att 7,502.0
E.	Is the emission point considered to be a New* or Existing* source, as defined in Chapter 17-2.02(5) & (6), Florida Administrative Code? _X New Existing
F.	Is this application associated with or part of a Development of Regional Impact (DRI) pursuant to Chapter 380, Florida Statutes, and Chapter 22F-2, Florida Administrative Code?YesNo
G.	Normal Equipment Operating Time: hrs/day: 24 ; days/wk: 6 ; wks/yr: 32 ; if seasonal, describe: Citrus
	Harvesting season; normally December through July.
°N:	
19	ew Source: any source which came into existence, began operation or construction, or received a permit for the latter on or after January 18, 172.

Existing Source: any source in existence, operating or under construction (or with a permit to construct) prior to January 18, 1972.

A. Raw Materials and Chemicals Used In Your Process:	r trian incinerators)	46.ST/W (24hrs 1 of ene
Description	Utilization Rate tbs./hr.	Relate to Flow Diagram
Wet Citrus Peel	81,000 #/Hr.	In feed to Feed Mill
Dry Lime	100 #/Hr.	Added to Citrus Peel
Plant Waste Waters and Spent Caustic	9,000 #/Hr.	To Peel or Evaporate Feed Tank

Process Rate:

Total Process Input Rate (lbs./hr.): 90,100

Product Weight (lbs/hr): Approximately 18,000 #/Hr. Feed @ 10% moisture

Airborne Contaminants Discharged:

16 165/Mx 24 hr/day x 6 da/wx x 3 2 wx/year = 2,000/60/Fore =

	om Eva
30 From Relief Stack Should It Be Used.	
Relief Stack Not Normally Used In Operation	

Control Devices:

Name and Type (Model and Serial No.)	Contaminant	Efficiency [†]	Range of Particles Size Collected (in microns)	Basis for Efficiency 11
Gas Recycle	Dust		2/3 of Exhaust	11 Years Operation ·
_System on Dryer	<u> </u>		is Recirculated	on 10 or more Similar
			•	Fire Dryers '
Wet Scrubbing	Dust	99 + %	Particules of	11 Years Operation
System on Evap.			1.0 mm & Under	on 10 or more similar
			e 140°F	fire dryers
		,		

^{*}Estimate only if this is an application to construct.

^{**}Specify units In accordance with emission standards prescribed within Section 17-2.04, F.A.C. (e.g. Section 17-2.04(6)(e)1.a. specifies that new fossil fuel steam generators are allowed to emit particulate matter at a rate of 0.1 lbs. per million BTU heat input computed as a maximum 2-hour everage.)

^{***}Using above example for a source with 260 million BTU per hour heat input: 0.1 lbs x 260 MMBTU = 25 lbs./hr.

[†]See Supplemental Requirements, page 5, number 2.

^{††}Indicate whether the efficiency value is based upon performance testing of the device or design data.

. ,	Specific)		Consumption	•		Maximum	
		avg./h		Max./hr.	/	Heat Input (MMBTU/hr)	1
atural_Gas		48,000 cu	ft./hr	561400	1,000 BTU	/CU Ft	48 x 106
Sub #6 Oil	.		. 3146 #/		56.4		
Inits: Natural Gas	- MMCF/hr.; Fu	el Oils, Coal - Ibs./h	. Gas by I	t. Pierce	Utilities A Ft. Pierce,	uthority, B	ox 3191, 33450
Fuel Analysis:	Oi1:	;			: `	1101100	
Percent Sulfur:	2.3	<u> </u>		Percent Ash:	0.06		
Density:	8.0	188		_ib./gat.			•
Heat Capacity:	179	28		BTU/Ib	145,000		BTU/و
Other Fuel Con	ntaminants:			 .			
Maratia Markin ta	<i></i>			•	al Average:	0	0
. If applicable, in	idicate the percei	nt of fuel used for s	bace neating:	: Annu	al Average:	Waximum:	
. Indicate liquid	or solid wastes go	enerated and metho	d of disposal: Approximate	elv 55 gpm	of evaporat	or condensa	ite are
disnosed	of on pla	ent spray f	ield. App	roximately	55 gpm of s	econd effec	t condens
•	s plant wa		* * * * * * * * * * * * * * * * * * *	,	-		
Teusen a	5 praire we	101.	•	,			
		low Characteristics					•
Stack Height: .	Exhaust 9	90'-0" Reli	ef 52'-0"		k Diameter:EX		ft
Gas Flow Rate	: _16,25 0		206	ACFM Gas	Exit Temperature:	<u>Approximate</u>	21v 14() o
							1 10
Water Vapor C	ontent:	Oximately	2016	·* / .	ab RL. //as) <u>.</u> .	1
Water Vapor C	ontent: ADD	145.001 Btu	/gel = 5	.* 10.75 × 1	ob Btu/h	L	110
Water Vapor C	pel/mx	145,000 Btu	/gd = 5	50.75 × 1	ob 13tu/h		
Water Vapor C	pol/MK pol/MK	145,000 Btu	/gd = 5	10.75 × 1	ob Btu/M	٠ 	<u>,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
Water Vapor C	pol/MK sch will	145,000 Btu	/gd = 5	50.75 × 1	ob 13tu/M	ا ر ب ب	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
Water Vapor Co	pol/MK sche will			* 6.75 × /		· · · · · · · · · · · · · · · · · · ·	
Water Vapor C	pol/m K deck will						<u></u>
Water Vapor Co		SECT	ION IV: INCINE	RATOR INFORM	ATION ,		
Samue Ato	Type O (Plastics)					Type V (Liq. & Gas	Type VI (Solid
Water Vapor Co	Туре О	SECT	Type II	Type III	ATION ,	Type V	Type VI
Water Vapor Co	Туре О	SECT	Type II	Type III	ATION ,	Type V (Liq. & Gas	Type VI (Solid
Some Ald	Туре О	SECT	Type II	Type III	Type IV (Pathological)	Type V (Liq. & Gas	Type VI (Solid
Water Vapor Co	Type O (Plastics)	SECT	Type II	Type III	ATION ,	Type V (Liq. & Gas	Type VI (Solid

_ Model No.: _

Manufacturer: _____
Date Constructed: .

	1		,		
	Volume ((t,)3	Heat Release	,	uel	Temp. (°F)
	(11.)5	(BTU/hr.)	Туре	BTU/hr.	1
Primary Chamber				/	
Secondary Chamber					
Stack Height:	ft. Stack Dian	neter:	Stack Temp.	/	°F
Gas Flow Rate:	ACFM	DSCFM*			
•If 50 or more tons per	day design capacity, submit	the emissions rate in grains per	standard cubic I	foot dry gas corre	ected to 50% excess air.
Type of Pollution Contr	ol Device:] Cyclone [Wet Scrubbe	•	[] Afterburner
	1) Other (Specify):	/		
Brief Description of Ope	erating Characteristics of Con	trol Device:	······································		
	Madria de la companya della companya della companya de la companya de la companya della companya				
		Emitted From the Stack (scrut			
Ultimate Disposal of An	y Efficient Other Than That	Emitted From the Stack (scrut	ber water, asn,	etc./:	
		/			
	/	/		 .	
			·		
					-

SECTION V: SUPPLEMENTAL REQUIREMENTS

Please Provide the Following Supplements Required For All Pollution Sources:

- 1. Total process input rate and product weight show derivation.
- 2. Efficiency estimation of control device(s) show derivation. Include pertinent test and/or design data.
- 3. An 8%" 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.
- 4. An 8%" x 11" plot plan of facility showing the exact location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.
- 6. An 8%" x 11" plot plan showing the exact 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 USGS topographic map.)
- 6. Description and sketch of storm water control measures taken both during and after construction. None Req'd. Existing Paved Are
- f. An application fee of \$20,00, unless exempted by Chapter 17.4.05(3), FAC, made payable to the Department of Environmental Regulation.
- B. With construction permit application, include design details for control device(s). Example: for baghouse, include cloth to air ratio; for scrubber, include cross-sectional sketch; etc.
- 9. Certification by the P.E. with the operation permit application that the source was constructed as shown in the construction permit application.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHEAST FLORIDA DISTRICT BRANCH OFFICE

2745 SOUTHEAST MORNINGSIDE BOULEVARD PORT ST. LUCIE, FLORIDA 33452



BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

March 19, 1986

Mr. Bernard W. McBee, Jr. General Manager TreeSweet Products Co., Inc. P.O. Box 189
Fort Pierce, Florida 33454

AP - St. Lucie County TreeSweet Products

Dear Mr. McBee:

Re: Applications for Permit Modifications to Burn No. 6 Fuel Oil - Boilers 3 and 4 Feed Mill.

The referenced applications have been sent to Tallahassee for review. As "major" modifications (proposed emissions greater than 100 tons per year) they must be processed by the Bureau of Air Quality Management. Please be advised that until a determination has been made on these applications, the boilers and feed mill should be operated according to the current permit limitations.

If you should have any questions you may call me, or Bill Thomas at BAQM, telephone (904)-488-1344.

Sincerely,

Tim Powell

Permitting Section

TP:1h/1

cc: Bill Thomas Wayne Griffen

DER MAR 21 1986

BAQM

DEPARTMENT OF ENVIRONMENTAL REGULATION

ROUTING AND	ACTION NO	
TRANSMITTAL SLIP	ACTION DUE DATE	
1. TO: (NAME, OFFICE, LOCATION)	Initial	
Bill Thomas	Date	
2.	Initial	
Bill Thomas Zally	Date	
3.	Initial	
O	. Date	
4.	Initial	
	Date	
REMARKS:	INFORMATION	
· ·	Review & Return	
	Review & File	
	Initial & Forward	
DER MAR 21 1986 BAQM	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	
FROM:	DATE	
	PHONE	

DEPARTMENT OF ENVIRONMENTAL REGULATION

ROUTING AND	ACTION	ACTION NO		
TRANSMITTAL SLIP	ACTION E	DUE DATE		
1. TO: (NAME, OFFICE, LOCATION)	<u> </u>	Initial		
Bill Thomas -BAQM		Date		
2.		Initial		
Tillahassee	,	Date		
3.	ne A	Initial		
DE	. R	Date		
7		Initial		
MAR 1	9 1986	Date		
REMARKS:	OM	ORMATION		
BA BA	Revi	ew & Return		
1 / / / /	Revi	ew & File		
Here are three (3) copies	Initi	al & Forward		
each for modifications to				
allow No. 6 fuel oil - switch				
·	DIS	SPOSITION		
from natural ges. Actual	Revi	ew & Respond		
lmissions increase could be up	Prep	are Response		
		My Signature		
40 900 TPY SOZ . I'll		Your Signature s Discuss		
sound up whetever permits, etc	Set	Up Meeting		
perment perments in	Inve	stigate & Report		
That are necessary for	Initi	al & Forward		
BARM's review. They plan	Dist	ribute		
Digital forest	Con	currence		
Lo, test peel dryer/withe. on 3/19 for So, and porticulates.	For	Processing		
3/19 day 302 and particulates.		al & Return		
FHUIVI:	DATE 3-1	7-86e		
	PHONE			
Tim towell	45	1-5053		

AC 56-117649 Withdrawn

See letter dated Fuly29,
1986, from Wayne E. Griffin, RE,
to C.H. Fancy, P.E., BARM, Deputy
Bureau Chicf.

BRM

1. What are presend

AO limitations—

2. Has there ever been a construction present

— Spoke to mu towell

3/27—He will pend.

mfo.

Bill this nud a BACT? STATE OF FLORIDA

AC 56-117649

DEPARTMENT OF ENVIRONMENTAL REGULATIO

SOUTHEAST FLORIDA SUBDISTRICT

2745 SOUTHEAST MORNINGSIDE BOULEVARD PORT ST. LUCIE, FLORIDA 33452 STATE OF FLORES

GOVERNOR

MAR 17 1986

VICTORIA J. TSCHINKEL SECRETARY

AL MUELLER SUBDISTRICT MANAGER

ept. Furt St. Lucie

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Industrial Steam Process Boiler [] New 1 [[] New 2 Existing 2
APPLICATION TYPE: [] Construction [] Operation [Modification
COMPANY NAME: TREESWEET PRODUCTS COMPANY INC. COUNTY: ST. LUCIE
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 #3
SOURCE LOCATION: Street 1000 Bell Avenue City Ft. Pierce
UTM: East 714,120' 565,25km North 1,114,050' 3031,08k
Latitude 27 ° 24 ' 11 "N Longitude 80 ° 20 ' 24 "W
APPLICANT NAME AND TITLE: Bernard W. McBee, Jr. General Manager
APPLICANT ADDRESS: 1000 Bell Avenue, Ft. Pierce, Florida 33482
SECTION I: STATEMENTS BY APPLICANT AND ENGINEER
A. APPLICANT
I am the undersigned owner or authorized representative* of TreeSweet Products Co., Inc.
I certify that the statements made in this application for a modification 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: Dunal W. M. Bel.
Bernard W. McBee, Jr. General Manager
Name and Title (Please Type)
Date: 3/10/86 Telephone No.(305)461-3800
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

DER Form 17-1.202(1) Effective October 31, 1982

Page 1 of 12

Cartificial 5 rail # P318 101 073

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

	an effluent that complies	th all applicable statutes of the St	tate of Florida and the
	furnish, if authorized by	department. It is also agreed that e owner, the applicant a set of inst	tructions for the proper
	maintenance and operation pollution	the pollution control facilities and	nd, if applicable,
• 1		Signed WE Signed	
	30.31VIS.	Wayne E Griffin	
! .		Name (Please	Type)
		GulfCoast Engineering, Inc.	
	Militar	Company Name (P.	leasa Type)
•	The Control of the Co	913 S. Parsons Avenue-Suite A	
Flo	rida Registration No. 199	Date: 3/12/86 Telephone	No.(813)685-9727
		II: GENERAL PROJECT INFORMATION	,
Α.	and expected improvements	nt of the project. Refer to pollut source performance as a result of a ult in full compliance. Attach add	inatallation. State
	TreeSweet desires t	use #6 fuel oil as the primary fuel w	when it is
	financially advantageou	utilizing existing equipment.	
_			
		,	<u>· · · · · · · · · · · · · · · · · · · </u>
В.	Sanedule of project covere	in this application (Construction Pa	srmit Application Only)
	Start of Conatruction	Completion of Construc	ction
c.	for individual components,	ystem(s): (Note: Show Greakdown or its of the project serving pollution shall be furnished with the applicat	n control purposea.
D.		rmits, orders and notices associated ance and expiration dates.	i with the emission
	Current Permit #AO-	-55650 expires 6-1-87	
	·		
DER	Form 17-1,202(1)	· · · · · · · · · · · · · · · · · · ·	
	ective October 11, 1982	Page 2 of 12	

5616

Ε.	Requested permitted equipment operating time: hrs/day 18 ; days/wk 6 ; wks/yr 52							
	if power plant, hrs/yr; if seasonal, describe: Citrus processing se	eason						
	December through July (normally)	i						
		c						
F.	If this is a new source or major modification, answer the following quest (Yes or $\underline{\text{No}}$)	iona.						
	l. 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.	v.						
	 Does the State "Prevention of Significant Deterioriation" (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?	* 1						
	5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this scurce?							
H. :	Do "Reasonably Available Control Technology" (RACT) requirements apply to this source?							
	a. If yes, for what pollutants?							
	b. If yes, in addition to the information required in this form,							

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

any information requeated in Rule 17-2.650 must be submitted.

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

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

	Contaminants		Utilization		
Description	Туре	% Wt	Rate - lbs/hr	Relate to Flow Diagram	
,					

B. Process Rate, if applicable: (See Section V, I

1.	Total Process Input Rate	(lbs/hr):N/A	
2.	Product Weight (lbs/hr):	Approximately 33,000 (steam)	

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

Name of	Emission ¹		Allowed ² Emission Rate per	Allowable ³ Emission	Potential ⁴ Emission		Relate to Flow
Contaminant	Maximum lbs/hr	Actual T/yr	Rule 17-2	lbs/hr	lbs/yr	T/yr	Diagram
Particulates	77	87	17-2.600(10)	20% opacity	6.7x10 ⁵	337	_
Sulfur Dioxide	108	120			9.5x10 ⁵	473	_
Carbon Monoxid	e 1.4	1.5			12,260	6	
Hydrocarbon	.28	.3			2,450	1.2	<u> </u>
Nitrogen Oxide	s 33	37			2.9x10 ⁵	144	<u> </u>

¹See Section V, Item 2.

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

³Calculated from operating rate and applicable standard.

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

D. Control Devices: (See Section V, Item 4) None

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
t	<u> </u>		î, Ê	
	į.			· i
				4
	,			

E. Fuels

	Consu	nption*			
Type (Be Specific)	avg/hr	max./hr	Maximum Heat Input (MMBTU/hr)		
Natural Gas	16,900 cf/Hr.	41,850 cf/hr	43.9		
No. 2 Fuel Oil	110 gal/hr.	276 gph	38.6		
No. 6 Fuel Oil	110 gal/hr.	276 gph	41.9		
		}			

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

Fuel Analysis: No. 6					
Percent Sulfur: 2.5		Percent Ash:	.05		_
Density: 9.0 @ 60°F 1b				.5	
Heat Capacity:		152,000			BTU/gal
Other Fuel Contaminants (which may ca	ause air p	ollution):			
F. If applicable, indicate the perce	ent of fue	l used for space h	neating.		
Annual Average0	Ма	ximumO			
G. Indicate liquid or solid wastes	generated	and method of disp	osal.	;	
Liquid wastes disposed of	in plant	waste water system	n.		

H. Emissi	on Stack Ge	ometry and	Flow Cha	racteristi	cs (Provide	data for e	ach stack)):
Stack Heig	ht:38.5	5		ft. St	ack Diamete	er:2.67	7	ft.
Gas Flow R	ate: 14,66	60ACFM		_DSCFM Ga	s Exit Temp	erature:	425	
						44		FPS.
		SECT	ION IV:	INCINERATO	R INFORMATI	ON N/A		
Type of Waste						Type V (Liq.& Gas By-prod.)	(Solid By	y-prod.)
Actual lb/hr Inciner- ated								
Uncon- trolled (lbs/hr)	·							
Approximat Manufactur	e Number of	Hours of	Operation	per day _	day/	eacity (lbs/	wks/yr	
Date Const				MOGBI				
		Volume (ft) ³	Heat R		Fue]	BTU/hr	Temperat	
Primary C	hamber					,		
Secondary	Chamber		<u> </u>					
Stack Heig	ht:	ft.	Stack Dia	mter:		Stack T	emp.	
Gas Flow R	ate:		_ACFM		DSCFM*	Velocity: _		FP\$
*If 50 or		er day des	ign capac	ity, submi	t the emiss	ions rate i		
Type of po	llution con	trol devic	e: [] C	yclone [] Wet Scrub	ber [] Af	terburner	
			[] 0	ther (spec	ify)			
	.7-1.202(1) November 30		; ; }	Page 6 of	12		•	

brier description o	or operating	cnaracteristics o	r control devices	•	
		į			
			· · · · · · · · · · · · · · · · · · ·		
Ultimate disposal o ash, etc.):	f any efflue	nt other than tha	t emitted from th	e stack (scrubber	water,
		·			
		N	,		
		1			

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.

- 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 air-borne 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.

DER Form 17-1.202(1) Effective November 30, 1982

9.	The appropriate application fee in accommade payable to the Department of Enviro	rdance with Rule 17-4.05. The check should be nmental Regulation.
10.	With an application for operation permit struction indicating that the source vermit.	t, attach a Certificate of Completion of Convas constructed as shown in the construction
	SECTION VI: BEST AVAI	LABLE CONTROL TECHNOLOGY
Α.	Are standards of performance for new sta applicable to the source?	ationary sources pursuant to 40 C.F.R. Part 60
	[] Yes [] No	
	Contaminant	Rate or Concentration
	· ·	Rate of Concentration
		· - · · · · · · · · · · · · · · · · · ·
	,	
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
	· · · · · · · · · · · · · · · · · · ·	·
8.	Has EPA declared the best available conyes, attach copy)	trol technology for this class of sources (I
	[] Yes [] No	
	Contaminant	Rate or Concentration
	·	
		·
с.	What emission levels do you propose as b	est available control technology?
	Contaminant	Rate or Concentration
_	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
_		·
	<u>, </u>	
	 	
Ο.	Describe the existing control and treatm	ent technology (if any).
	1. Control Device/System:	2. Operating Principles:
	3. Efficiency:*	4. Capital Costs:
*Ex	plain method of determining	
	Form 17-1.202(1)	
		8 of 12

Useful Life: Operating Costs: 7. Energy: Maintenance Cost: Emissions: Contaminant Rate or Concentration Stack Parameters Height: Diameter: ft. Flow Rate: ACFM d. Temperature: ٩F. Velocity: FPS Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary). 1. Control Device: Operating Principlea: ь. Efficiency: 1 Capital Cost: Useful Life: Operating Cost: e. Energy: 2 Maintenance Cost: q. Availability of construction materials and process chemicals: i. Applicability to manufacturing processes: 1. Ability to construct with control device, install in available space, and operate within proposed levels: 2. Control Device: Operating Principles: Efficiency: 1 Capital Cost: c. Operating Cost: Useful Life: e. Energy: 2 Maintenance Cost: g. Availability of construction materials and process chemicals: Explain method of determining efficiency. 2 Energy to be reported in units of electrical power - KWH design rate.

Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 3. Control Device: b. Operating Principles: Efficiency: 1 d. Capital Cost: Useful Life: f. Operating Cost: Energy: 2 h. Maintenance Cost: Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 4. Control Device: b. Operating Principles: Efficiency: 1 d. Capital Costs: Useful Life: Operating Cost: Energy: 2 q. Maintenance Cost: Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: Describe the control technology selected: Efficiency: 1 2. Control Device: Useful Life: Capital Cost: Energy: 2 5. Operating Cost: Maintenance Cost: Manufacturer: 7. Other locations where employed on similar processes: (1) Company: (2) Mailing Address: (4) State: (3) City: Explain method of determining efficiency. 2 Energy to be reported in units of electrical power - KWH design rate. DER Form 17-1.202(1)

Page 10 of 12

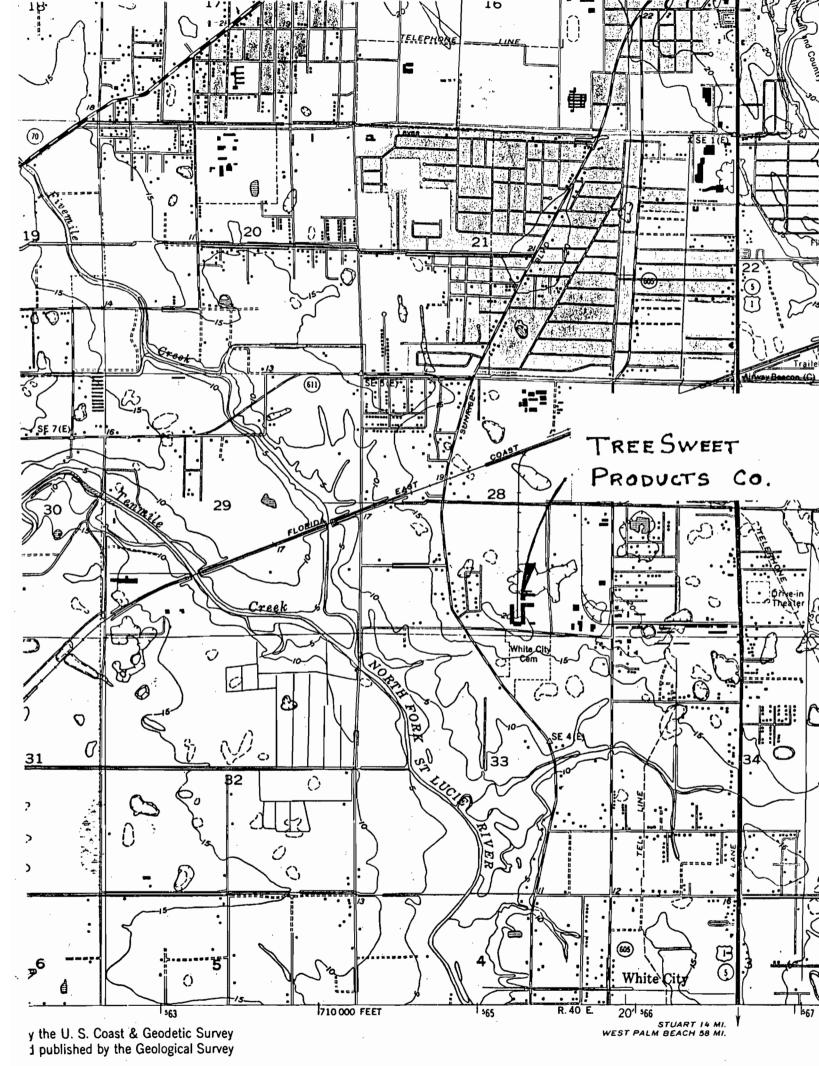
Effective November 30, 1982

•	• • •			•		
	š			:		
(5) En	vironmental Manager:			i i		
(6) Te	lephone No.:					
	issions: ¹			£		
	Contaminant		F	Rate or Conc	entration	
						_
					· j	
					ý ·	
(8) Pr	ocess Rate:1					
b. (1)	Company:			·	The state of the s	
(2) Ma	iling Address:					
(3) Ci	ty:		(4) State:			
(5) En	vironmental Manager:		•			
(6) Te	lephone No.:		•		·	
(7) Em	issions:1	:				
	Contaminant		ş	Rate or Conc	entration	
	ı		,			
	·					
	1			,		
(8) Pr	ocess Rate: 1					
	ocess Rate: * ason for selection and c	description	of systems:			
10. Re ¹ Applicant		mation whe	n available.	Should thi	s informat	ion not
10. Re ¹ Applicant	ason for selection and o	mation whe	n available.) why.			**
lO. Re ^l Applicant available,	ason for selection and o must provide this infor applicant must state th	mation whe	n available.) why.			**
lO. Re ^l Applicant available,	ason for selection and of must provide this infor applicant must state the SECTION VII - Pf	mation whene reason(s	n available.) why. F SIGNIFICANT	DETERIORATI	ON	ion not
10. Re Applicant available, A. Company	ason for selection and of must provide this infor applicant must state the SECTION VII - Pf	mation whene reason(s REVENTION O	n available.) why. F SIGNIFICANT	DETERIORATI S02+	ON Wind	ion not
lO. Re Applicant available, A. Company 1 Period	must provide this infor applicant must state the SECTION VII - Pf Monitored Data	rmation whene reason(s REVENTION O TSP month d	n available.) why. F SIGNIFICANT () / to ay year	DETERIORATI S02* /month day	ON Wind year	ion not
lO. Re Applicant available, A. Company 1 Period Other of	must provide this infor applicant must state the SECTION VII - Pf Monitored Data	mation whene reason(s REVENTION O TSP month d	n available.) why. F SIGNIFICANT () / to ay year	DETERIORATI S02*	ON Wind year	ion not
lO. Re Applicant available, A. Company 1 Period Other of	must provide this infor applicant must state the SECTION VII - Pf Monitored Data	mation whene reason(s REVENTION O TSP month d	n available.) why. F SIGNIFICANT () / to ay year	DETERIORATI S02*	ON Wind year	ion not
lO. Re Applicant available, A. Company l Period Other of Attach	must provide this infor applicant must state the SECTION VII - Pf Monitored Data	mation whene reason(s REVENTION O TSP month d summaries	n available.) why. F SIGNIFICANT () / to ay year	DETERIORATI S02*	ON Wind year	ion not
10. Re Applicant available, A. Company 1 Period Other of Attach *Specify but DER Form 17	must provide this infor applicant must state the SECTION VII - Pf Monitored Data	mation whene reason(s REVENTION O TSP month d aummaries (C).	n available.) why. F SIGNIFICANT () / to ay year	DETERIORATI S02*	ON Wind / year	ion not
10. Re Applicant available, A. Company 1 Period Other of Attach *Specify but DER Form 17	must provide this infor applicant must state the SECTION VII - Pf Monitored Data	mation whene reason(s REVENTION O TSP month d aummaries (C).	n available.) why. F SIGNIFICANT () / to ay year to this applic	DETERIORATI S02*	ON Wind / year	ion not

	2.	Instrument	ation, Field	and Laborator	y	÷				
	a.	Was instru	mentation EPA	referenced o	or its e	quivalent?	[] Ye	s [] N		•
	b.	Was instru	mentation cal	ibrated in ac	cordanc	e with Dep	artment	procedur	s?	
		[] Yes [] No [] Un	known						
3.	Meto	eorological	. Data Used fo	r Air Quality	Modeli					
	1.	Year	(s) of data f	rom /	/ y year	to	/ / day ye	ar		
	2.	Surface da	ta obtained f	rom (location	1)		·			-
	3.	Upper air	(mixing heigh	t) data obtai	ined fro	m (locatio	n)			
			wind rose (ST	•		•				
•		puter Model	•	•		•				
	1.	•			•	Modified?	If ves	attach	descri	ntion
	_									
	3.									
	4.				· ·	Modified?	If yes	, attach	descri	ption.
		ach copies le output t	of all final	model runs sh	nowing i	nput data,	recepto	r locati	ons, an	d prin-
ì.	Appl	licants Max	imum Allowabl	e Emission Da	ıta			. •		
	Poli	lutant		Emission Ra	te			•		
	1	TSP		. ,	4	gr	ams/sec	*		
	9	s o ²				gr:	ams/sec			
Ξ.	Emis	ssion Data	Used in Model						ř.	
			emission sou on NEDS point							

and normal operating time.

- Attach all other information supportive to the PSD review.
- Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). assessment of the environmental impact of the sources.
- 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.



GULFCOAST ENGINEERING COMPANY

CONSULTING ENGINEERS

P.O. BOX 1786 • BRANDON, FLORIDA 33511 TELEPHONE: (813) 685-9727 • 685-0085

	e
= 77 #/ Wa	
108 # Wa	
1.38 #/HR .28 #/H	
33 \$/H	
23 P/45	
AP-42	•
	AP-42

Annual emissions are based on 5616 Hours of operation Potential emissions are based on 8760 Hours of operation

Actual Emissions

Porticulates @ 28 #/13 gal @ 110 ggh = 31 #/1202 Sulfur Dioxide @ 393 #/10 ggl @ 110 ggh = 43 #/40 Corbon Mouride @ 5 #/103 gal @ 110 ggh = .55 #/40 Hydro Corbon @ 1 #/103 gal @ 110 ggh = .10 #/40 Nitrogon Oxides @ 120 #/103 gal @ 110 ggh = 13 #/40

AC 56-117671

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHEAST FLORIDA SUBDISTRICT

2745 SOUTHEAST MORNINGSIDE BOULEVARD PORT ST. LUCIE, FLORIDA 33452



BOR GRAHAM GOVERNOR

SECRETARY

VICTORIA J. TSCHINKEL

Dept. VI MANAGER Port St. Lucie

MAR 1 9 1988

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: <u>Industrial Steam Process Boiler</u> [] New ¹ [x] Existing ¹
APPLICATION TYPE: [] Construction [] Operation [x] Mo	dification BAQM
COMPANY NAME: TREESWEET PRODUCTS COMPANY INC.	COUNTY: ST. LUCIE
Identify the specific emission point source(s) addressed i	
Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas	Fired)
SOURCE LOCATION: Street 1000 Bell Avenue	City Ft. Pierce
UTM: East714,120'	North 1,114,050'
Latitude 27 ° 24 ' 11 'N	Longitude 80 • 20 ' 24 'W
APPLICANT NAME AND TITLE: Bernard W. McBee, Jr.	General Manager
APPLICANT ADDRESS: 1000 Bell Avenue, Ft. Pierce, Florida	33482
	,

STATEMENTS BY APPLICANT AND ENGINEER

APPLICANT

I am the undersigned owner or authorized representative* of TreeSweet Products Co., Inc.

I certify that the statements made in this application for a Modification 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.

Signed:

*Attach letter of authorization

Bernard W. McBee, Jr. General Manager Name and Title (Please Type)

Telephone No.(305)461-3800 Date: 3/10/86

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

DER Form 17-1.202(1) Effective October/31, 1982

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

	an effluent that complies with all rules and regulations of the depart furnish, if authorized by the owner	hen properly maintained and operated, will discharge applicable statutes of the State of Florida and the ment. It is also agreed that the undersigned will, the applicant a set of instructions for the proper llution control facilities and, if applicable,
	Sig	ned We show
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Wayne E. Griffin
		Name (Please Type)
		GulfCoast Engineering, Inc.
		Company Name (Please Type)
	913	S. Parsons Avenue-Suite A, Brandon, Florida 33511
		Mailing Address (Please Type)
Floa	orida Registration No. 19974 Dat	s: 3/12/86 Telephone No. (813)685-9727
•	SECTION II: G	ENERAL PROJECT INFORMATION
A.	and expected improvements in source	he project. Refer to pollution control equipment, performance as a result of installation. State full compliance. Attach additional sheet if
	TreeSweet desires to use #6 fu	nel oil as the primary fuel when it is
	financially advantageous utili	zing existing equipment.
Β.	Schedule of project covered in this	application (Construction Permit Application Only)
	Start of Construction	Completion of Construction
c.	for individual components/units of): (Note: Show breakdown of estimated costs only the project serving pollution control purposes. e furnished with the application for operation
	Current Permit #A0-56-112670	expires 2/14/91
		· · · · · · · · · · · · · · · · · · ·
D.	Indicate any pravious DER permits, point, including permit issuance an	orders and notices associated with the emission detes.
٠		
DER	R Form 17-1.202(1)	

Page 2 of 12

Effective October 31, 1982

	quested permitted equipment operating time: $hrs/day = \frac{18}{3}$; $days/wk = \frac{6}{3}$	
•	December through July (normally)	
	December enrough out (normally)	
.—		_
	this is a new source or major modification, answer the following queat es or $\overline{ ext{No}}$	ions.
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 Deterioriation" (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 scurce?	
	"Reasonably Available Control Technology" (RACT) requirements apply this source?	
٠.	a. If yes, for what pollutants?	-
:	b. If yes, in addition to the information required in this form,	

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: $\mathrm{N/A}$

	Contam	inants	Utilization		
Description	Type	% Wt	Rate - lbs/hr	Relate to Flow Diagram	
				·	

В.	Process	Rate,	if	applicable:	(See	Section	٧,	Item	1)
----	---------	-------	----	-------------	------	---------	----	------	---	---

- 1. Total Process Input Rate (lbs/hr):__
- 2. Product Weight (lbs/hr): Approximately 33,000 (steam)
- C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

Name of	Emission ¹		Allowed ² Emission Rate per	Allowable ³ Emission	Potent Emisa	Relate to Flow	
Contaminant	Maximum lbs/hr	Actual T/yr	Rule 17-2	lbs/hr	lbs/yr	T/yr	Diagram
Particulates	77	87	17-2.600(10)	20% opacity	6.7x10 ⁵	337	-
Sulfur Dioxide	108	120	·	"	9.5x10 ⁵	473	-
Carbon Moroxid	e 1.4	1.5			12,260	6	-
Hydrocarbon	.28	.3			2,450	1,2	-
Nitrogen Oxide	s 33	37		,	2.9x10 ⁵	144	_ -

 $^{^{1}}$ See Section V, Item 2.

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

³Calculated from operating rate and applicable standard.

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

D. Control Devices: (See Section V, Itam 4) NONE

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
1			<u></u> \$	1
	•			·
		-		

E. Fuels

	Consump				
Type (Be Specific)	avg/hr	max./hr	Maximum Heat Input (MMBTU/hr)		
Natural Gas "	16,900 cf/Hr.	41,850 cf/Hr.	43.9	1	
No. 2 Fuel Oil	110 gal/Hr.	276 gph	38.6	1	
No. 6 Fuel Oil	110 gal/Hr.	276 gph	41.9		

*Units: Natural Gas--MMCF/hr; Fuel Oils--gallons/hr; Coal, wood, refuse, other--lbs/hr. Fuel Analysis: no.6 .05 2.5 Percent Sulfur: Percent Ash:___ Density: _____ 9 @ 60° F •5 . ___ lbs/gal Typical Percent Nitrogen:___ BTU/15 Other Fuel Contaminants (which may cause sir pollution): F. If applicable, indicate the percent of fuel used for space heating. Annual Average _____0 Maximum G. Indicate liquid or solid waates generated and method of disposal. Liquid wastes disposed of in plant waste water system.

						data for e	
						r:	
				•		ersture:	
Water Vapoi	r Content:	8.	. 2%	% Ve	locity:	4,	FPFP
		SECT	ION IV:	INCINERATO	R INFORMATI	ON N/A	A
Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Patholog- ical)	Type V (Liq.& Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Inciner- ated				,			
Uncon- trolled (lbs/hr)				,			
Manufacture	er						wks/yr
			',				
		Volume (ft) ³		elease /hr)	Fuel Type	BTU/hr	Temperature (°F)
Primary Ch	namber						
Secondary	Chamber			·			
Stack Heigh	ht:	ft.	Stack Dia	mter:		Stack T	етр.
Gas Flow R	ate:		_ACFM		DSCFM#	Velocity: _	FP
	wore tons p foot dry g					ions rate i	n graina per stan
Type of po	llution con	trol devic	e: [] ©	yclone [] Wet Scrub	ber [] Af	terburner
			[] 0	ther (spec	ify)		.!
	7-1.202(1) November 30			Page 6 of	12		d d

erier gescription	or op	erating c	ating characteristics		or courrot	geArces:			
† *	•		*.			1		1.	
	_				k,				
	.*								
			,						
Iltimate disposal ash, etc.):	of an	y effluen	t other	than the	at emitted	from the	stack	(scrubber	water,
•									
					:				

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)]

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

- 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 standarda. 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 deaign 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 $1/2^n$ \hat{x} 11^n 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 $1/2^n \times 11^n$ 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 accord made payable to the Department of Environ	ance with Rule 17-4.05. The check should be mental Regulation.
10.		, attach a Certificate of Completion of Conscional construction
	SECTION VI: BEST AVAILA	ABLE CONTROL TECHNOLOGY
Α.	Are standards of performance for new statapplicable to the source?	ionary sources pursuant to 40 C.F.R. Part 60
	[] Yes [] No	
	Contaminant	Rate or Concentration
		•
•		•
В.	Has EPA declared the best available cont yes, attach copy)	rol technology for this class of sources (If
	[] Yes [] No ,	
	Contaminant	Rate or Concentration
c.	What emission levels do you propose as be	st available control technology?
	Contaminant	Rate or Concentration
	· · · · · · · · · · · · · · · · · · ·	
		`
D.	Describe the existing control and treatment	nt techno@ogy (if any).
	1. Control Device/System:	2. Operating Principles:
	T. C.	A Conital Conto

*Explain method of determining

	5.	Useful Life:		6.	Operating Costs:	
	7.	Energy:		8.	Maintenance Cost:	
	9.	Emissions:				
		Contaminant			Rate or Concentrati	on
						\$
				-		
		<u> </u>				;
		· · · · · · · · · · · · · · · · · · ·				
	10.	Stack Parameters				
	a.	Height:	ft.	ь.	Diameter:	ft.
	c.	Flow Rate:	ACFH	d.	Temperature:	°F.
	е.	Velocity:	FPS	:	·	
ε.		cribe the control and treatment additional pages if necessary).	techn	olog	y available (As many types	as applicable,
	1.				•	
	a.	Control Device:		ь.	Operating Principles:	
	c.	Efficiency:1		d.	Capital Cost:	
	е.	Useful Life:		f.	Operating Cost:	e M
	g.	Energy: ²		h.	Maintenance Cost:	·
	i.	Availability of construction mat	erial	.s an	d process chemicals:	
	j.	Applicability to manufacturing p	roces	808:		
	k.	Ability to construct with contro within proposed levels:	ol de	vice	, install in available space	e, and operate
	2.					
	а.	Control Device:		ь.	Operating Principles:	
	c.	Efficiency: 1		d.	Capital Cost:	
	е.	Useful Life:		f.	Operating Cost:	
	g.	Energy: ²		h.	Maintenance Cost:	
	i.	Availability of construction mat	erial	ls an	d process chemicals:	
1 € ;	xplai	n method of determining efficienc	у.			i
²Ēi	nergy	to be reported in units of elect	rical	L pow	er - KWH design rate.	

DER Form 17-1.202(1)

Effective November 30, 1982

Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 3. Control Device: Operating Principles: ь. Efficiency: 1 d. Capital Cost: c. Useful Life: Operating Cost: Energy: 2 Maintenance Cost: g. h. Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 4. Control Device: Operating Principles: Efficiency: 1 Capital Costs: c. Useful Life: Operating Cost: Energy: 2 Maintenance Cost: q. Availability of construction materials and process chemicals: j. Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: Describe the control technology selected: 2. Efficiency: 1 1. Control Device: Capital Cost: Useful Life: 3. 4. Energy: 2 Operating Cost: Maintenance Cost: Manufacturer: Other locations where employed on similar processes: (1) Company: (2) Mailing Address: (3) City: (4) State: ¹Explain method of determining efficiency. $^{
m Z}$ Energy to be reported in units of electrical power - KWH design rate.

Page 10 of 12

F.

DER Farm 17-1.202(1)

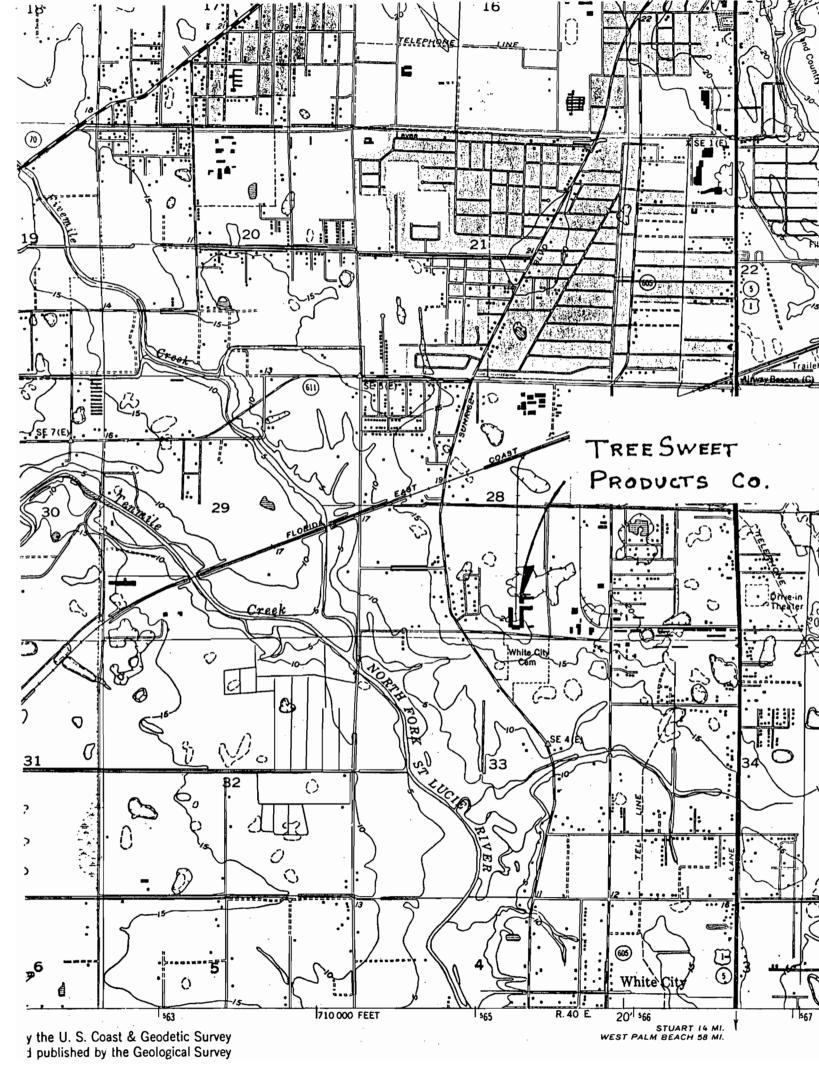
Effective November 30, 1982

(5) Environmental Manager:	e de la companya de l	1
(6) Telephone No.:		{
(7) Emissions: 1	i .	· · · · · · · · · · · · · · · · · · ·
Contaminant	Rate or Concen	tration
·		
		
(8) Process Rate: 1		
b. (1) Company:		
(2) Mailing Addreas:		٤
(3) City:	(4) State:	
(5) Environmental Manager:	·	3,
(6) Telephone No.:		
(7) Emissions: 1	·. !	:
Contaminant	Rate;or Concen	tration of s
	-	2 "
·		* .
(8) Process Rate: 1	•	
10. Reason for selection and description	of systems:	
Applicant must provide this information whe available, applicant must state the reason(s	•	information not b
SECTION VII - PREVENTION O	F SIGNIFICANT DETERIORATION	•
A. Company Monitored Data		
1no. sites TSP _	() SO ² *	Wind spd/dir
Period of Monitoring / month	to/_/	Vesr
Other data recorded		
Attach all data or statistical aummaries		
*Specify bubbler (B) or continuous (C).	·	
DER Form 17-1.202(1)	11 of 12	
Elicotato notomber 20, 1204 Fage	44 41 44	

	2. Instrumentation, Field and Laboratory	
	a. Was instrumentation EPA referenced or its	equivalent? [] Yes [] No
	b. Was instrumentation calibrated in accorda	nce with Department procedures?
	[] Yes [] No [] Unknown	
в.	Meteorological Data Used for Air Quality Mode	ling
	1Year(s) of data from // month day ye	ar month day year
	2. Surface data obtained from (location)	
	3. Upper air (mixing height) data obtained f	•
	4. Stability wind rose (STAR) data obtained	from (location)
Ξ.	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 ciple output tables.	input data, receptor locations, and prin-
ο.	Applicants Maximum Allowable Emission Data	
	Pollutant Emission Rate	
	TSP	grams/sec
	so ²	grams/sec
Ε.	Emission Data Used in Modeling	
	Attach list of emission sources. Emission da	

and normal operating time.

- F. Attach all other information supportive to the PSD review.
- 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.
- 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.



GULFCOAST ENGINEERING COMPANY CONSULTING ENGINEERS

P.O. BOX 1786 • BRANDON, FLORIDA 33511 TELEPHONE: [613] 665-9727 • 665-0085

job no	· · · · · ·	0 1 1				.
description	Tree Sweet			puted by <u>い</u> ば		3-12-86
		_sheet	of che	ecked by	date	<u> </u>
Bailers#3 \$	#4					
Uncontrolled						
Ponticulates Sulfue Dioxide		30 D 2		= 108 4 4		
Carbon Monoxid	· 2 5#/6	apl. 2 2	16 gph	= 1.38 #/H	2	
Hydracarboni Nitrogen Oxie		•	16 86 P	= .28 #/h	1	
	are colculated	using tab	le 1.3-1	AP-42		nsc l
		· · · · · · · · · · · · · · · · · · ·				quality in the profession of agent and
Annual emission Potential emission	are based or	n: 5616	Hours	of operation		
Actual Emiss						
Porticulates.	28 #/103 gr	م ا ا ه ح	76 h =	31 #/11		
	2 2 393 #/16° og			43 #/HA		
1/ydro Conba	a) 1 #/67 0	Q 20 110 38	h z	10 # HA		
Nitrigen Oxida	s a 120 #/187 gcl	1 0 110 g	ph z	13 # 14~		
					:	

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMEN

SOUTHEAST FLORIDA SUBDISTRICT

2745 SOUTHEAST MORNINGSIDE BOULEVARD PORT ST. LUCIE, FLORIDA 33452



MAR 17 1986

Part St. Lucie

AC 36-117613

BOR GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL

AL MUELLER

SUBDISTRICT MANAGER

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

Citrus Pulp Denydrator System	I wem. [v] rxisting.
APPLICATION TYPE: [] Construction [] Open	ation [x] Modification
COMPANY NAME: TREESWEET PRODUCTS COMPANY, I	COUNTY: ST. LUCIE
Identify the specific emission point source(s	addressed in this application (i.e. Lime
Kiln No. 4 with Venturi Scrubber; Peaking Uni	
SOURCE LOCATION: Street 1000 Bell Avenue	City_Ft. Pierce
UTM: East 714,120'	North 1,114,050'
Latitude 27 ° 24 ' 11 '	'N Longitude 80 ° 20 ' 24 'W
APPLICANT NAME AND TITLE: Bernard W. McB	ee, Jr. General Manager
APPLICANT ADDRESS: 1000 Bell Avenue, Ft. Pie	rce, Florida 33482
SECTION I: STATEMENTS I	Y APPLICANT AND ENGINEER
A. APPLICANT	to the second of
I am the undersigned owner or authorized	representative* of TreeSweet Products Co., Inc.
I agree to maintain and operate the pofacilities in such a manner as to compl Statutes, and all the rules and regulation also understand that a permit, if grante and I will promptly notify the department establishment.	the best of my knowledge and belief. Further, llution control source and pollution control y with the provision of Chapter 403, Florida ons of the department and revisions thereof. It does not be department, will be non-transferable tupon sale or legal transfer of the permitted agned:
*Attach letter of authorization Si	· · · · · · · · · · · · · · · · · · ·
<u> </u>	Bernard W. McBee, Jr. General Manager Name and Title (Please Type)
Da	te: 3/10/86 Telephone No. (305) 461-3800
B. PROFESSIONAL ENGINEER REGISTERED IN FLOR	IDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have

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

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

DER Form 17-1.202(1) Effective October 31, 1982

Page 1 of 12

Certified mail # P 318 101 073

	sn effluent that complies with rules and regulations of the de furnish, if authorized by the o	es, when properly maintained and operated, will discharge all applicable statutes of the State of Florida and the epartment. It is also agreed that the undersigned will owner, the applicant a set of instructions for the properties the policable,
	but a consideration.	Signed UVE, W
	(635) Wall	Signed 2, 22
	S = 0	Wayne E. Griffin () Name (Please Type)
	0 9 5 5	GulfCoast Engineering, Inc. Company Name (Please Type)
		913 S. Parsons Avenue-Suite A, Brandon, Florida 33511
•		Mailing Address (Please Type)
Flor	rida Registration No. 19974	Date: 3/12/86 Telephons No. (813)685-9727
. •		I: GENERAL PROJECT INFORMATION
A	and expected improvements in so	of the project. Refer to pollution control equipment, ource performance as a result of inetallation. State t in full compliance. Attach additional sheet if
	TreeSweet desires to use	e #6 fuel oil as the primary fuel when it is
		s utilizing existing equipment.
в.	Sanedule of project covered in	this application (Construction Permit Application Only)
	Start of Construction	Completion of Construction
c.	for individual components/units	tem(s): (Note: Show breakdown of estimated costs only s of the project serving pollution control purposes. all be furnished with the application for operation
		· ·
		<u> </u>
	·	
D.	Indicate any pravious DER permit point, including permit issuance	its, orders and notices associated with the emission ce and expiration dutes.
	Current permit #A0-56-64	4438 expires 3/29/88
		· ·
DER	Form 17-1.202(1)	

Page 2 of 12 i

c.

Effective October 31, 1982

4330 876 Welman M. 5 m. 4 M. 5

R	Requested permitted equipment operating time: hrs/day 24 ; days/wk 6	; wks/yr <u>30</u>
i	if power plant, hrs/yr; if seasonal, describe: Operates during fruit	it .
	processing season; normally December through July.	
_		
-		
	If this is a new source or major modification, answer the following quest Yes or $\overline{\text{No}}$)	ions.
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 Deterioriation" (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 scurce?	
	Oo "Reasonably Available Control Technology" (RACT) requirements apply to this source?	
	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:

· ·	Contam	inants	Utilization			
Description	Type	% Wt	Rate - lbs/hr	Relate to Flow Diagram		
Wet Citrus Peel	Particulate	±1%	81,000#/Hr.	in feed to feed mill		
Dry Lime	-	0	100#/Hr.	Added to Citrus Peel		
Plant Waste Water	_	0	9.000#/Hr.	to evaporator feed tank #2		

and spent caustic

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

- 1. Total Process Input Rate (lbs/hr): 90,100
- 2. Product Weight (lbs/hr): Approximately 18,000#/Hr. feed @ 10% moisture
- C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

Name of	Emission ¹		Allowed ² Emission Rate per	Allowable ³ Emission	Potential ⁴ Emission		Relate to Flow
Contaminant	Maximum lbs/hr	Actual T/yr	Rule 17-2	lbs/hr	lbs/yr	T/yr	Diagram
Particulates	3.38#/H	Ir. 4.1	17-2.600(10)	20% opacity	1.97x10 ⁶	984	·
Sulfur Dioxid	e *	*	& <u>17-2.610</u>	31.3#/Hr.	3.4x10 ⁵	169	_
Carbon Monoxi	de *	*			4320	2.2	_ `
Hydrocarbons	*	*			864	•4	_
Nitrogen Oxid	es *	*			1.04x10 ⁵	51.8	•

¹See Section V, Item 2.

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

³Calculated from operating rate and applicable standard.

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

^{*} Actual emission are unknown: to be tested

^{**} Based on 2400 Hrs. of operation without wet scrubber control.

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)
Wet Scrubber	Particulate	99±%	Particules of 1mm and	
	<u> </u>		under @ 140° F.	
	:			

€. Fuels

	Consu	mption*		
Type (Be Specific)	avg/hr	max./hr	Maximum Heat Input (MMBTU/hr)	
Natural Gas	4 x 10 ⁴ cf/Hr.	4.8 x 10 ⁴ cf/Hr.	48	
#6 Oil	240 ga1/Hr.	360 gal/Hr.	54.7	

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

		37 /
Fuel	Analysis:	No.6

Fuel Analysis: NO.0		
Percent Sulfur: 2.5	Percent Ash: .05	
Density: 9.0 @ 60°F	⁰¹ ,Գ _Ծ ւռժ ^լ ռԸ Typical Percent Nitrogen:_	0.5
Heat Capacity:BTU/1b	152 000	BTU/gal
Other Fuel Contaminants (which may cause air p	ollution):	
F. If applicable, indicate the percent of fue Annual Average O Ma	1	
G. Indicate liquid or solid wastes generated	and method of disposal.	
Solids become animal feed. Liquids are	utilized in cooling, scrubb	oing,
washdowns and evaporator cleanups ultimate	ly disposed of in plant wast	ewater
system.		

S	ubmitted o	n vearly tes	sts			data for e	
			ft. Stack Diameter:				
					•		FPS
water vapo	r content:			% VE	110c1ty:		
		SECT	ION IV:	INCINERATO	R INFORMATI	CON .	
Type of Waste		Type I) (Rubbish)	(Refuse)	Type III (Garbage)	Type IV (Patholog- ical)	Type V (Liq.& Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Inciner- ated							
Uncon- trolled (lbs/hr)							
Descriptio	n of Waste						
Total Weig	ht Inciner	ated (lbs/h	r)		_ Design Cap	acity (lbs/	hr)
Approximat	e Number o	f Hours of	Operation	per day _	day,	'wk	wks/yr
Manufactur	er				l		
Date Const	ructed			Model	No		
		· ·		·			
		Volume (ft) ³	Heat R		Type Fuel	BTU/hr	Temperature (°F)
Primary C	hamber						
Secondary	Chamber						
Stack Heig	ht:	ft.	Stack Dia	mter:		Stack T	emp
Gas Flow R	ate:		_ACFM		DSCFM*	Velocity: _	FPS
		per day des gas correct				ions rate i	n grains per stan-
Type of po	llution co	ntrol devic	e: [] C	yclone [] Wet Scrub	ober [] Af	terburner
			[] 0	ther (spec	ify)		

GULFCOAST ENGINEERING COMPANY

CONSULTING ENGINEERS

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description	Treesweet	Products	computed by $\overline{\mathcal{W}}$	_ data 3-11-86
		sheet	of checked by	_ date

Worte Heat Evagorator

Uncontrolled emissions

#6 Process Particulator - 11% = 810#/HR

Fuel Penticulator - 28 #/103gol = 28 x. 36. Deh = 1000 = 10.1 #/HR

Sulfur Di=xide - 393 #/103gol = 393 x 360 geh = 1000 = 141 #/HL

Carbon Monoxide - 5 #/103 gol = 5 x 360 geh = 1000 = 1.8 #/HL

Hydro carbons - 1 #/103 gol = 1 x 360 geh = 1000 = 36 #/HL

Nitrogen Oxides - 120 #/103 gol = 120 x 360 geh = 1000 = 43.2 #/HL

Controlled emissions (per test)

Pricess Porticulates = 30.85 TNS/Hn x 1% particulates = 617 #/He

potential uncontrolled emissions = 617 + 10.1 = 627.1 #/HR

Actual emissions = 3.38 #/HR

Particular 1/3 removal = 99.46 %

Controlled emissions for sulfur discide, carbon monoxide, hydrocorbons, & nitrogen oxides are unknown. It is anticipated the emission levels of these parameters will be significantly less than the uncentrolled emissions.

Annual emission levels based on 7.400 Has of operation

rief description of o		,							
		ii	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •					
		24	· · · · · · · · · · · · · · · · · · ·				,	 	
		1							
		·							
ltimate disposal of a	ny effluent	other	than that	emitted	from	the	stack	(scrubber	water
	ny effluent	other	than that	emitted	from	the	stack	(scrubber	water
	ny effluent	other	than that	emitted	from	the	stack	(scrubber	water
	ny effluent	other	than that	emitted	from	the	stack	(scrubber	water
ltimate disposal of a	ny effluent	other	than that	emitted	from	the	stack	(scrubber	water

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(a) efficiency. Include teat or deaign data. Itema 2, 3 and 5 ahould 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 air-borne 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 E	nvironmental Regu	lation.	**	1

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 AVAIL	ABLE CONTROL TECHNOLOGY				
Α.	Are standards of performance for new sta applicable to the source?	tionary sources pursuant to 40 C.F.R. Part				
	[] Yes [] No					
	Contaminant	Rate or Concentration				
						
8.	Has EPA declared the best available contyes, attach copy)	trol technology for this class of sources (I				
	[] Yes [] No					
	Contaminant	Rate or Concentration				
	·	·				
<u> </u>	What emission levels do you propose as be	est available control technology?				
	Contaminant	Rate or Concentration				
						
D.	Describe the existing control and treatme	ent technology (if any).				
	1. Control Device/System:	2. Operating Principles:				
	3. Efficiency:*	4. Capital Costs:				
*Ex	plain method of determining	·				
DER	Form 17-1.202(1)	0 -5 10				

	5.	Useful Life:	6.	Operating Costs:
	7.	Energy:	8.	Maintenance Cost:
	9.	Emissions:		
		Contaminant		Rate or Concentration
		· · · · · · · · · · · · · · · · · · ·		
	10.	Stack Parameters		
	a.	Height: ft.	b.	Diameter: ft.
	c.	Flow Rate: ACFM	d.	Temperature: °F.
	е.	Velocity: FPS		•
ε.		cribe the control and treatment technaditional pages if necessary).	olog	y available (As many types as applicable
,	1.			
	a.	Control Device:	b.	Operating Principles:
	c.	Efficiency: 1	d.	Capital Cost:
	е.	Useful Life:	f.	Operating Cost:
	g.	Energy: 2	h.	Maintenance Cost:
**	i.	Availability of construction materia	ls an	nd process chemicals:
	j.	Applicability to manufacturing proces	38 08 :	
	k.	Ability to construct with control dewithin proposed levels:	vice	, install in available space, and operato
	2.			•
	. a.	Control Device:	ь.	Operating Principles:
	c.	Efficiency: 1	d.	Capital Cost:
	е.	Useful Life:	f.	Operating Cost:
	g.	Energy: 2	h.	Maintenance Cost:
	i.	Availability of construction materia	ls ar	nd proceaa chemicals:
lex 2Er	oplai Terqy	n method of determining efficiency. to be reported in units of electrica	l pow	ver – KWH design rate.

- Applicability to manufacturing processes: j. k. Ability to construct with control device, install in available space, and operate within proposed levels: 3. Control Device: Operating Principles: b. Efficiency: 1 d. Capital Cost: Useful Life: f. Operating Cost: Energy: 2 h. Maintenance Cost: Availability of construction materials and process chemicals: Applicability to manufacturing processea: j. Ability to construct with control device, install in available space, and operate within proposed levels: 4. Control Device: b. Operating Principles: Efficiency: 1 Capital Costs: c. Useful Life: Operating Cost: Energy: 2 Maintenance Cost: q. Availability of construction materials and process chemicals: Applicability to manufacturing processes: j. Ability to construct with control device, install in available apace, and operate within proposed levels: Describe the control technology selected: Control Device: 2. Efficiency: 1 Capital Cost: Useful Life: 3. 5. Operating Cost: Energy: 2 6. 7. Maintenance Cost: Manufacturer: Other locations where amployed on similar processes: (1) Company: (2) Mailing Address: (3) City: (4) State:
- 1 Explain method of determining efficiency. 2 Energy to be reported in units of electrical power KWH design rate.

(5) Environmental Manager:	
(6): Telephone No.:	·
(7) Emissions: 1	
Conteminant	Rate or Concentration
	<u> </u>
(8) Process Rate: 1	
b. (1) Company:	
(2) Mailing Address:	
(3) City:	(4) State:
(5) Environmental Manager:	
(6) Telephone No.:	
(7) Emissions: 1	
Contaminant	Rate or Concentration
(8) Process Rate: 1	,
10. Reason for selection and descr	iption of systems:
Applicant must provide this informati available, applicant must state the respective of the second s	
A. Company Monitored Data	
1no. sites	TSP () SO ² * Wind spd/dir
Period of Monitoring mont	/ / to / / h day year month day year
Other data recorded	
Attach all data or statistical summ	earies to this application.
*Specify bubbler (B) or continuous (C).	
DER Form 17-1.202(1) Effective November 30, 1982	Page 11 of 12

	2.	Instrumentat	ion, Field	and Laborat	ory					
	a.	Was instrume	ntation EPA	referenced	or its e	quivalent?	[] Yes	[] No		
	b.	Was instrume	ntation cal	ibrated in	accordanc	e with Dep	artment p	rocedure	s?	
		[] Yes []	No [] Un	known						
В.	Met	eorological Da	ata Used fo	r Air Quali	ty Modeli	n g				
	1.	Year(s) of data f	rom /	day year	to	/ / day yea	-		
	2.	Surface data	obtained f	rom (locati	on)			,		
	3.	Upper air (m:	ixing heigh	t) data obt	ained from	n (locatio	n)			
	4.	Stability win	nd rose (ST	AR) data ob	tained fro	om (locatio	on)			
c.	Com	puter Models (Used							
	1.					Modified?	If yes,	attach	descripti	on.
	2.									
	4.					Modified?	If yes,	attach	descripti	on.
		ach copies of le output tab		model runs	showing i	nput data,	receptor	locatio	ons, and p	rin
D.	Арр	olicants Maximo	um Allowabl	e Emission	Data					
	Pol	lutant		Emission	Rate					
		TSP _				gr	ams/sec			
		50 ²				gr:	ams/sec			
Ε.	Emi	ssion Data Use	leboM ni be	ing						
		ach list of en								

and normal operating time.

- F. Attach all other information supportive to the PSD review.
- 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.
- 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.



TREESWEET		
- County: ST. Lucie		
- CHU BOWERS 3 & 4 F		
P.E.: WAYNE GRIFFIN	(813) 635-9727	
- Juny , Buy & Casys x 50	= 5616 YR	
.		
- TUIS IS FOR	CONTROUL	#6/dt
- BXLER = 3 - #4	NO	276 gal
- #4	NO	u a
- Per Dayer & W. U.E.	SCAUBBER	360 u
FUEL (#6) MAS 2	59. S	
		um entidos com que transportante e del estas una compromisso superce A
/5	Low Bh / Sal	
152 00 Bru/SJ 3	20 e. A /1.	
152,000 Bu/g/ x 3.	4	5.6.10° Btu/h
THUS ALL MES CONSIG	THER "waison,	AL" CLASS.
+ #6 (Bunker C) 18		
211: 10/3,125 (05)+	2 20 Kg 1 5 12.	1 24 /3
P.M: 1/3/7.25 (9.5) + 0	2.30 TO 3/ [10(.K)	- 316/10° ga
151 2	l ke	3/6
10 gd = (1.25)(.025 = 0.03125+	+ 0.38 TO (0.0)	25) - 103 gel
= 0.03/25+	0.38 69 80.25	- 135 9-17
		/.
1032 x (1032)	k / 1/2	90
102 864.690	(0.4544 164)	200
2/R	kg / /b	- · · · · · · · · · · · · · · · · · · ·
8,329.10 3 70	13 = 16 13 l = 8 d l	
apper .	and the same of th	
$5.329.10^{-3} \left(\frac{1}{10}\right)$ $5.329.10^{-3} \left(\frac{1}{10}\right)$	and the same of th	0.25 + 3/6

$$0.3125 + 9.495.15^{6} \frac{16}{103}gel + 7913.10^{-2} \frac{16}{103}gel$$

$$0.3125 + 9.495.15^{6} \frac{16}{103}gel + 7913.10^{-2} \frac{16}{103}gel$$

$$0.3125 + 9.495.15^{6} \frac{16}{103}gel + 7913.10^{-2} \frac{316}{103}gel$$

$$0.3125 + 9.495.15^{6} \frac{16}{103}gel + 7913.10^{-2} \frac{316}{103}gel$$

$$0.316 + 100 \frac{316}{103}gel + 100 \frac{316}{103}gel + 100 \frac{316}{103}gel$$

$$0.316 + 100 \frac{316}{103}gel + 100 \frac{316}{103}gel + 100 \frac{316}{103}gel$$

$$0.316 + 100 \frac{316}{103}gel + 100 \frac{316}{103}gel + 100 \frac{316}{103}gel$$

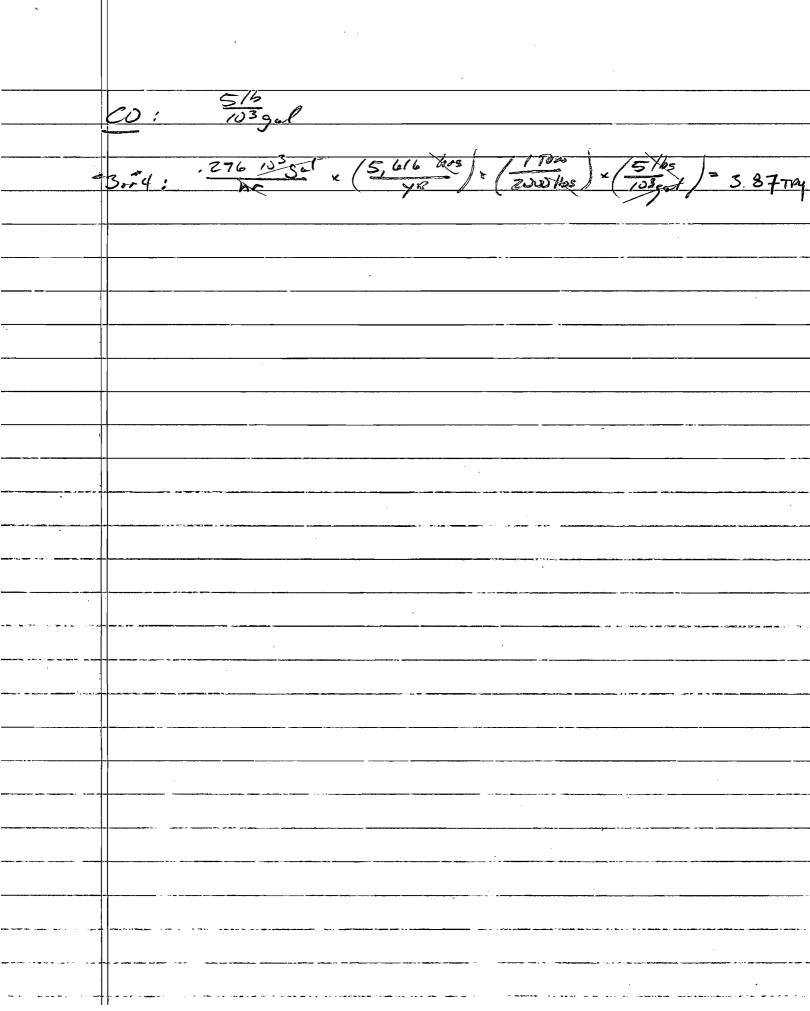
$$0.316 + 100 \frac{316}{103}gel + 100 \frac{316}{103}gel + 100 \frac{316}{103}gel$$

$$0.316 + 100 \frac{316}{103}gel + 100 \frac{316}{103}gel + 100 \frac{316}{103}gel$$

$$0.316 + 100 \frac{316}{103$$

157 (7.5) 157 (2.5) 342.5 16 1035el 1035el BUNGES 3, 4: 276 ESEM = 2.76.10 2.76.10- (103gol) x (392.5/h) - 108.33 /bs/h-Thy = 108.33 /45 x (5616 hrs) x (17000) = 304.191704 Toom SU21 BOILER #3: 304.191 4: 304.191 /W.M.E 396.771 SUBT TO SCOLLETSED 1005.153 47- 2.510 (2) (4) 3: Hows TO MINON, (MINI-ATTAIN A)

17-2.500 (2 /d) 3



 NO_{X} : $\frac{16 NO_{2}}{703 gol} = 22 - 400 [N]^{2}$ N = 0.5 = 22 + 100 = 122 $= 3074: \frac{.276 NO_{2}}{4\pi} \cdot \frac{(12276 NO_{2})}{105 gol} \cdot \frac{5616 M}{4\pi} \cdot \frac{1400}{2007 M} = 94 \pi py$ $= 94.551 \pi ny \quad PSR \quad UNIT = 3 \text{ ay } = 4$

	EDSTAINMETON SORY
TR	ESWEET
	SPECIFICATIONS
÷ · · · · ·	
T T	BOILER 3 - MOREL: JOHNSON FINERINGE (1000 Ap)
	- Raren Consern : 33.5 MRs. in ?
	- RATED CARREING: 33.5 MBlu for ? - MRS OF OP.: 24608 x 6 days x 52 whs .

33.5 MBlu fin ? x 6 days , 52 whs = 3488 hrs/yr. DAGE OF CONSTRUCTION: - EMISSIONS LIMIT! V.E. OF 20% - BERNESTED MOD; BARS; =6 EVEL, 5616 FIRE

- Bulen #4 - MODEL: JOHALSON FIRE NUMBE (1000 hp) - RATED CARACITY. 14.9 MBhu PAR ? - HRS. UP SP.: 7,488 hrs/4r

- DATE UT CONSTRUCTION: ~ SPRIL 81

- EMISSIONS LIMIT: V.E. OF 2090 - REP. MOD? " DOG & Godys STUKS & SOUGHAR /40. FOFUEL

- Per Dujer / Waste HEAT EVALUEATOR - Moper: GULF MACLINE PRYER

- RATER CARRETY: 40000 = / hr PEEL, 40 MBtu/hr - HRS OF OP: July = 30 wit = 2,400 hrs/yr

- DATE OF CONSTRUCTION: ~ NOV 76

- EMISSIONS LIMIT: FROM P.W.T.: 35TPH (WET poel)

= 30.6 llofbr 34.7 Troy (TESTS @ 33.7mg)
- Red. MOD.: 24hrs 6 days 2 200/20 = 4,320 bos fy. 8 26 Fee 20 1/NPNF - 45 TRY

DECT AVAILABLE COM	
BEST AVAILABLE COPY	
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