

P 938 762 666

**RECEIPT FOR CERTIFIED MAIL**


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

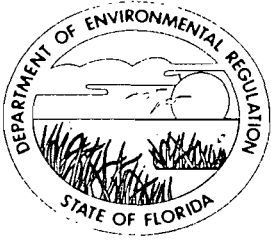
Sent to Mr. Joseph P. Stidham,	
Street and No. Hercules, Inc. 7625 9th St., S.W.	
P.O., State and ZIP Code Vero Beach, FL 32960	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date Mailed: 8-31-89 Permit: AC 31-165145	

PS Form 3800, June 1985

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.  
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

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

<b>3. Article Addressed to:</b> Mr. Joseph P. Stidham Plant Manager Hercules, Inc. 7625 9th Street, S.W. Vero Beach, FL 32960	<b>4. Article Number</b> P 938 762 666 <b>Type of Service:</b> <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
<b>5. Signature - Address</b> X	Always obtain signature of addressee or agent and <b>DATE DELIVERED.</b>
<b>6. Signature - Agent</b> <i>Joseph P. Stidham</i>	<b>8. Addressee's Address (ONLY if requested and fee paid)</b> 
<b>7. Date of Delivery</b>	



# Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary

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

Mr. Joseph P. Stidham  
Plant Manager  
Hercules, Inc.  
7625 9th Street, S.W.  
Vero Beach, Florida 32960

August 29, 1989

Enclosed is construction permit No. AC 31-165145 for Hercules, Inc. to construct a pellet cooler controlled by a cyclone at their existing facility in Vero Beach, Indian River 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

Copy furnished to:

John W. Bottorf, Jr., P.E.  
John Turner, CF District

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on August 31, 1989.

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.

Martha Wise August 31, 1989  
Clerk Date

Final Determination

Hercules, Inc.  
Indian River County

Pellet Cooler with Cyclone  
AC 31-165145

Department of Environmental Regulation  
Division of Air Resources Management  
Bureau of Air Quality Management  
Central Air Permitting

August 24, 1989

## Final Determination

Hercules, Inc.'s application for a permit to construct/install a pellet cooler controlled by a cyclone at their facility in Vero Beach, Indian River County, Florida, has been reviewed by the Bureau of Air Quality Management.

Public Notice of the Department's Intent to Issue the construction permit was published in the Vero Beach Press-Journal on July 17, 1989.

Copies of the Preliminary Determination have been available for public inspection at the Department's Central District office in Orlando and the Department's Bureau of Air Quality Management office in Tallahassee.

Comments, (telephone conversation on July 12, 1989) were received from Mr. Roger Caldwell, Engineer for Bottorf & Associates, during the public notice period.

The Department agrees with his comments that a higher particulate matter emission rate than proposed is allowed by F.A.C. Rule 17-2.610(1) and (2). Therefore specific condition No. 2. will be changed as follows:

From:

2. Emissions from this source shall not exceed 3.7 lbs/hour of particulate matter and 20% opacity. Compliance with the particulate matter standards shall be determined by EPA Reference Methods 1, 2, 3, 4, 5 and 9 as described in 40 CFR 60, Appendix A (July 1, 1988). The compliance test shall be conducted concurrently while the plant is operating within 10% of its permitted capacity. The Central Florida District office shall be notified at least 15 days prior to any compliance test.

To:

2. Emissions from this source shall not exceed the amount allowed by the process weight table, F.A.C. Rule 17-2.610, or 9.0 lbs/hr of particulate matter, whichever is less. Visible emissions shall not exceed 20% opacity. Compliance with the particulate matter standards shall be determined by EPA Reference Methods 1, 2, 4, 5, and 9 as described in 40 CFR 60, Appendix A (July 1, 1988). The compliance tests shall be conducted concurrently while the plant is operating within 10% of its permitted capacity. The Central District office shall be notified at least 15 days prior to any compliance test.

The final action of the Department is to issue the permit with the changes as described in this final determination.



## Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary

PERMITTEE:  
Hercules, Inc.  
7625 9th Street, S.W.  
Vero Beach, Florida 32968

Permit Number: AC 31-165145  
Expiration Date: January 1, 1990  
County: Indian River  
Latitude/Longitude: 27°35'05"N  
80°28'57"W  
Project: Pellet Cooler/Cyclone

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

To construct a pellet cooler/cyclone at the permittee's facility in Vero Beach, Indian River County, Florida.

The source shall be constructed in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application received May 22, 1989.

PERMITTEE:  
Hercules, Inc.

Permit No. AC 31-165145  
Expiration Date: January 1, 1990

**GENERAL CONDITIONS:**

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

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. Neither 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 is not 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, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

PERMITTEE:  
Hercules, Inc.

Permit No. AC 31-165145  
Expiration Date: January 1, 1990

GENERAL CONDITIONS:

6. The permittee shall 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 and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor 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 provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including 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.



PERMITTEE:  
Hercules, Inc.

Permit No. AC 31-165145  
Expiration Date: January 1, 1990

**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 for 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 involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

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 17-4.120 and 17-30.300, F.A.C., 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 or a copy thereof shall be kept at the work site of the permitted activity.

13. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold 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) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

PERMITTEE:  
Hercules, Inc.

Permit No. AC 31-165145  
Expiration Date: January 1, 1990

**GENERAL CONDITIONS:**

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 dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

14. 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 corrected promptly.

**SPECIFIC CONDITIONS:**

1. This source is allowed to operate 24 hours/day, 7 days/week, 32 weeks/year (during the citrus harvesting season).

2. Emissions from this source shall not exceed the amount allowed by the process weight table, F.A.C. Rule 17-2.610, or 9.0 lbs/hr of particulate matter, whichever is less. Visible emissions shall not exceed 20% opacity. Compliance with the particulate matter standards shall be determined by EPA Reference Methods 1, 2, 4, 5, and 9 as described in 40 CFR 60, Appendix A (July 1, 1988). The compliance tests shall be conducted concurrently while the plant is operating within 10% of its permitted capacity. The Central District office shall be notified at least 15 days prior to any compliance test.

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

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

PERMITTEE:  
Hercules, Inc.


Permit No. AC 31-165145  
Expiration Date: January 1, 1990

SPECIFIC CONDITIONS:

5. Upon obtaining a permit to operate, the permittee shall be required to submit annual reports on the emissions from this source. Annual reports shall be sent to the Central District office.

Issued this 24 day  
of August, 1989

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
Dale Twachtmann, Secretary



State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

# Interoffice Memorandum

TO: Dale Twachtmann

FROM: Steve Smallwood *[Handwritten Signature]*

DATE: August 24, 1989

SUBJ: Air Construction Permit No. AC 31-165145  
Hercules, Inc.

*Please call  
Patty Adams  
when signed  
8-1344*

Attached for your approval and signature is a permit prepared by Central Air Permitting for the above mentioned company to install a pellet cooler controlled by a cyclone at their facility in Vero Beach, Indian River County, Florida.

One comment was received during the public notice period. Day 90, after which the permit will be issued by default, is September 18, 1989.

I recommend your approval and signature.

SS/TH/t

Attachments

**RECEIVED**  
AUG 24 1989

Office of the Secretary

Check Sheet

Company Name: Hercules, Inc.  
Permit Number: AC 13-165145  
PSD Number: \_\_\_\_\_  
Permit Engineer: \_\_\_\_\_

**Application:**

- Initial Application
- Incompleteness Letters
- Responses
- Waiver of Department Action
- Department Response
- Other

**Cross References:**

- 
- 
- 

**Intent:**

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

Correspondence with:

- EPA
- Park Services
- Other
- Proof of Publication
- Petitions - (Related to extensions, hearings, etc.)
- Waiver of Department Action
- Other

**Final Determination:**

- Final Determination
- Signed Permit
- BACT Determination
- Other

**Post Permit Correspondence:**

- Extensions/Amendments/Modifications
- Other

P 938 762 737

**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

PS Form 3800, June 1985

Sent to Mr. Joseph P. Stedham, Hercules	
Street and No. 7625 North Street, S.W.	
P.O., State and ZIP Code Vero Beach, FL 32962	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date Mailed: 11-7-89 Permit: AC 31-165145	

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.  
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

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

3. Article Addressed to: Mr. Joseph P. Stedham Plant Manager Hercules Incorporated 7625 North Street, Southwest Vero Beach, FL 32962	4. Article Number P 938 762 737  Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
5. Signature - Address X	Always obtain signature of addressee or agent and DATE DELIVERED.
6. Signature - Agent X <i>Joseph P. Stedham</i>	8. Addressee's Address (ONLY if requested and fee paid)
7. Date of Delivery <i>11-9-89</i>	



# Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

November 1, 1989

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Joseph P. Stedham, Plant Manager  
Hercules Incorporated  
7625 North Street, Southwest  
Vero Beach, Florida 32962

Dear Mr. Stedham:

Re: Hercules Incorporated - File No. AC 31-165145

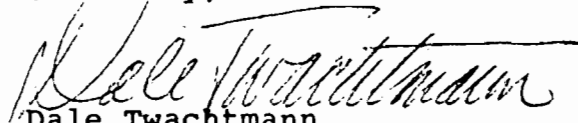
The Department is in receipt of your letter dated September 25, 1989, on behalf of Hercules Inc., requesting to change the expiration date of permit No. AC 31-165145.

The Department has considered your request and determined that the expiration date of the above mentioned permit will be changed as per your letter of September 12, 1989.

From: January 1, 1990  
To: March 1, 1990

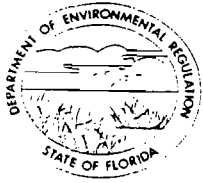
Attachment to be Incorporated:  
Letter of September 25, 1989

Sincerely,

  
Dale Twachtmann  
Secretary

DT/kt

cc: John Turner



State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

# Interoffice Memorandum

---

TO: Dale Twachtmann

*for* FROM: Steve Smallwood *Steve Smallwood*

DATE: October 31, 1989

SUBJ: Hercules Inc.  
AC 31-165145

Attached for your approval and signature is a letter that will extend the expiration date of the above referenced permit.

I recommend your approval and signature.

SS/TH/t

attachment





Hercules Incorporated  
7625 Ninth Street, S.W.  
Vero Beach, FL 32962  
(407) 569-3800

Sept. 25, 1989 RECEIVED

SEP 28 1989

DER-BAQM

C. H. Fancy, P. E.  
Deputy Chief  
Bureau of Air Quality Management  
Department of Environmental Regulation  
Twin Towers Bldg.  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

Re: Construction Permit No. AC 31-165145 for Hercules Incorporated.

Dear Mr. Fancy:

I am requesting that the expiration date for the referenced construction permit be extended from January 1, 1990 to March 1, 1990. The extension is required in order to run a compliance test on the cyclone as required before submission of an operating permit application. Since the equipment only runs during the citrus season, scheduling the compliance test will not be possible before late December or early January.

Sincerely,

*Joseph P. Stidham*  
Joseph P. Stidham  
Plant Manager

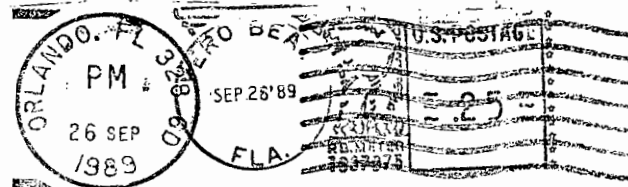
CC  
John W. Bottorf, Jr. P.E.  
Bottorf and Associates

John Turner  
Central Florida District  
Department of Environmental Regulation

cc: S. Nelson  
CHF/BT



Hercules Incorporated  
7625 Ninth Street S. W.  
Vero Beach, FL 32962



FIRST CLASS

C. H. Fancy, P. E.  
Deputy Chief  
Bureau of Air Quality Management  
Department of Environmental Regulation  
Twin Towers Bldg.  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

HER 26033 7-79





Hercules Incorporated  
7625 Ninth Street, S.W.  
Vero Beach, FL 32968  
(407) 569-3800

July 20, 1989

Mr. Bill Thomas  
Department of Environmental Regulation  
Bureau of Air Quality Management  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

RECEIVED  
JUL 24 1989  
DER-DAQM

Dear Mr. Thomas:

Re: Publication of Notice of Intent to Issue  
Construct. Permit No. A C 31 - 165 145

A notarized copy of the published Notice of Intent to Issue for the installation/construction of a pellet mill cooler controlled by cyclone is attached and submitted to you as required in the construction permit.

Best regards,

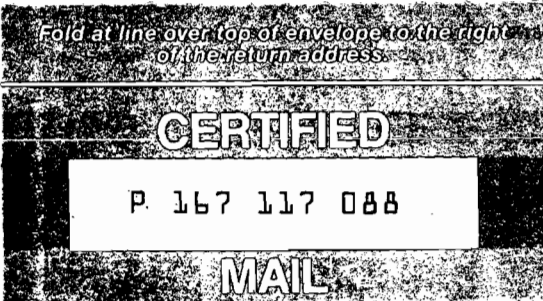
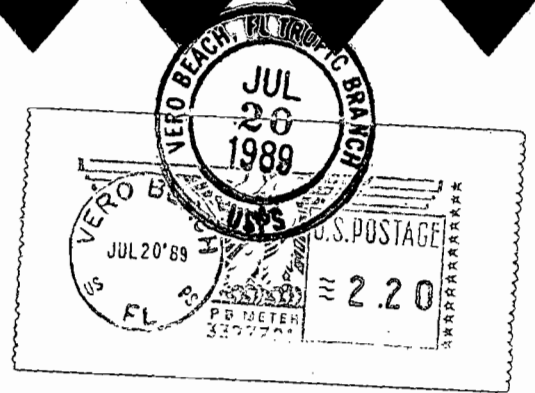
*Joseph P. Stidham*  
Joseph P. Stidham  
Plant Manager

JPS/lmk  
Enclosure

*cc: J. Heron  
C. Collins, et Diaz.*

Hercules Incorporated  
7625 Ninth Street S.W.  
Vero Beach, FL 32968

**RETURN RECEIPT  
REQUESTED**



# First Class Mail



Hercules Incorporated  
7625 Ninth Street S.W.  
Vero Beach, FL 32962

**Address Correction Requested**

MR. Bill Thomas  
Department of Environmental Regulation  
Bureau of Air Quality Management  
2600 Blair Stone Road  
Tallahassee, FL 32399 -2400

HER. 26031

**VERO BEACH PRESS-JOURNAL**

Published Daily

Vero Beach, Indian River County, Florida

RECEIVED JUL 19 1989

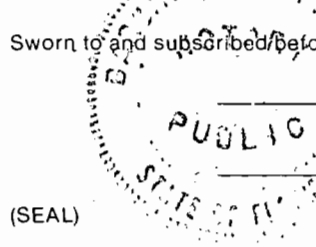
COUNTY OF INDIAN RIVER: STATE OF FLORIDA

Before the undersigned authority personally appeared J. J. Schumann, Jr. who on oath says that he is Business Manager of the Vero Beach Press-Journal, a daily newspaper published at Vero Beach in Indian River County, Florida; that the attached copy of advertisement, being

a Notice  
\_\_\_\_\_ in the matter of Notice of Intent to  
Issue  
\_\_\_\_\_ in the \_\_\_\_\_ Court, was published in said newspaper in the issues of July 17, 1989

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

Sworn to and subscribed before me this 17 day of July A.D. 19 89  
John J. Schumann Jr.  
(Business Manager)



Robert J. [Signature]  
(Clerk of the Circuit Court, Indian River County, Florida)

Notary Public, State of Florida  
My Commission Expires June 29, 1993

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

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit to Hercules Inc., 7625 9th Street, S.W., Vero Beach, Indian River County, Florida, to install/construct a pellet cooler controlled by a cyclone, to be located at Vero Beach, Indian River County, Florida. A determination of Best Available Control Technology (BACT) was not required. The Department is issuing this intent to issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information:

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

If a petition is filed, the administrative hearing process is designed to formulate agency action.

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

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

Department of Environmental Regulation  
Bureau of Air Quality Management  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400  
Dept. of Environmental Regulation  
Central Florida District  
3319 Maguire Blvd., Suite 232  
Orlando, Florida 32803-3767

Any person may send written comments on the proposed action to Mr. Bill Thomas at the Department's Tallahassee address. All comments mailed within 14 days of the publication of this notice will be considered in the Department's final determination.  
July 17, 1989

DIVISION OF AIR RESOURCE MANAGEMENT

(For Internal Use Only)

<b>ROUTING AND TRANSMITTAL SLIP</b>		ACTION NO																					
		ACTION DUE DATE																					
1. TO: (NAME, OFFICE, LOCATION)	Initial																						
<i>Jurisa</i>	Date																						
2.	Initial																						
	Date																						
3.	Initial																						
	Date																						
4.	Initial																						
	Date																						
<b>REMARKS:</b>  <i>Joe Stidham from Hercules, Inc. called. Their address is wrong in the application - should be 7625 9th St. (not 7925) - Also new zip code is 32964. He's going to change it in the notice - Help me to remember to change it in the final permit - I told Kim - He says he has no problem with the permit</i>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="padding: 5px;">INFORMATION</th> </tr> </thead> <tbody> <tr><td style="padding: 5px;">Review &amp; Return</td></tr> <tr><td style="padding: 5px;">Review &amp; File</td></tr> <tr><td style="padding: 5px;">Initial &amp; Forward</td></tr> <tr><td style="padding: 5px;"> </td></tr> <tr><td style="padding: 5px;"> </td></tr> <tr><td style="padding: 5px;"> </td></tr> <tr> <th colspan="2" style="padding: 5px;">DISPOSITION</th> </tr> <tr><td style="padding: 5px;">Review &amp; Respond</td></tr> <tr><td style="padding: 5px;">Prepare Response</td></tr> <tr><td style="padding: 5px;">For My Signature</td></tr> <tr><td style="padding: 5px;">For Your Signature</td></tr> <tr><td style="padding: 5px;">Let's Discuss</td></tr> <tr><td style="padding: 5px;">Set Up Meeting</td></tr> <tr><td style="padding: 5px;">Investigate &amp; Report</td></tr> <tr><td style="padding: 5px;">Initial &amp; Forward</td></tr> <tr><td style="padding: 5px;">Distribute</td></tr> <tr><td style="padding: 5px;">Concurrence</td></tr> <tr><td style="padding: 5px;">For Processing</td></tr> <tr><td style="padding: 5px;">Initial &amp; Return</td></tr> </tbody> </table>	INFORMATION		Review & Return	Review & File	Initial & Forward				DISPOSITION		Review & Respond	Prepare Response	For My Signature	For Your Signature	Let's Discuss	Set Up Meeting	Investigate & Report	Initial & Forward	Distribute	Concurrence	For Processing	Initial & Return
INFORMATION																							
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Initial & Return																							
FROM: <i>Patty</i>	DATE <i>7-13</i>																						
	PHONE																						

P 938 762 612

**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

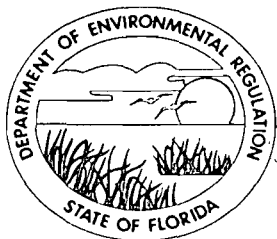
PS Form 3800, June 1985

Sent to <b>Mr. Joseph P. Stidham,</b>	
Street and No. <b>Hercules, Inc.</b> <b>7925 9th St., S.W.</b>	
P.O. State and ZIP Code <b>Vero Beach, FL 32960</b>	
Postage	S
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	S
Postmark or Date  Mailed: 7-7-89 Permit: AC 31-165145	

**SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

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

3. Article Addressed to:  Mr. Joseph P. Stidham Plant Manager Hercules, Inc. 7925 9th Street, S.W. Vero Beach, Florida 32960	4. Article Number <b>P 938 762 612</b>
	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
Always obtain signature of addressee or agent and <b>DATE DELIVERED.</b>	
5. Signature -- Address <b>X</b>	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature -- Agent <b>X</b> <i>Frances R. Ollis</i>	
7. Date of Delivery <b>7-10-84</b>	



# Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

July 7, 1989

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Joseph P. Stidham, Plant Manager  
Hercules, Inc.  
7925 9th Street, S.W.  
Vero Beach, Florida 32960

Dear Mr. Stidham:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permit for Hercules Inc., to construct a pellet cooler controlled by a cyclone to be located at Vero Beach, Indian River County, Florida.

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

Sincerely,

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

CHF/TH/s

Attachments

cc: John W. Bottorf, Jr., P.E.  
John Turner, CF District



BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of  
Application for Permit by:

Hercules Inc.  
7925 9th Street, S.W.  
Vero Beach, Florida 32960

DER File No. AC 31-165145

---

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, Hercules Inc., applied on May 22, 1989, to the Department of Environmental Regulation for a permit to install/construct a pellet cooler controlled by a cyclone, to be located at Vero Beach, Indian River County, Florida.

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

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

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

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant and the parties listed below must be filed within 14 days of receipt of this intent. Petitions filed by other persons must be filed within 14 days of publication of the public notice or within 14 days of receipt of this intent, whichever first occurs. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information;

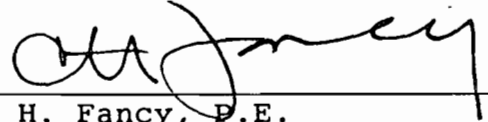
- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c)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

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the applicant have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office in General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such

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

Executed in Tallahassee, Florida

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION



---

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

Copies furnished to:

John W. Bortorf, Jr., P.E.  
John Turner, CF District

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on 7-7-89.

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

Martha J. Wise 7-7-89  
Clerk Date

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

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit to Hercules Inc., 7925 9th Street, S.W., Vero Beach, Indian River County, Florida, to install/construct a pellet cooler controlled by a cyclone, to be located at Vero Beach, Indian River County, Florida. A determination of Best Available Control Technology (BACT) was not required. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information;

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
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Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

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

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

Dept. of Environmental Regulation  
Central Florida District  
3319 Maguire Blvd., Suite 232  
Orlando, Florida 32803-3767

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

Technical Evaluation  
and  
Preliminary Determination

Hercules, Inc.  
Indian River County

Pellet Cooler/Cyclone

Permit Number: AC 31-165145

Department of Environmental Regulation  
Division of Air Resources Management  
Bureau of Air Quality Management  
Central Air Permitting Section

July 7, 1989

I. NAME AND ADDRESS OF APPLICANT

Hercules, Inc.  
7925 9th Street, Southwest  
Vero Beach, Florida 32960

II. REVIEWING AND PROCESS SCHEDULE

Date of Receipt of Application at the Central Florida  
District: May 22, 1989

Completeness Review: June 21, 1989

Application Completeness Date: May 22, 1989

III. FACILITY INFORMATION

III.1 Facility Location

The proposed source is located at 7925 9th Street, S.W., Vero Beach, Indian River County, Florida. The latitude and longitude coordinates of the source are 27°35'05"N and 80°28'57"W.

III.2 Standard Industrial Classification Code (SIC)

This facility is classified as follows:

Major Group No. - 20 Food and Kindred Products

Industry Group No. - 203 Canned, Frozen, and  
Preserved fruits, vegetables, and food specialities

Industry Group No. 2037 Frozen Fruit/Juice/Vegetable

IV. PROJECT DESCRIPTION

This project is for the permitting of an existing pellet cooler controlled with a cyclone, with estimated efficiency of 80%. This project also involves the construction of straightening vanes, stack extension, sampling ports and sample platform.

V. RULE APPLICABILITY

This project is subject to preconstruction review requirements under the provisions of Chapter 403, Florida Statutes (F.S.), and Chapter 17-2, Florida Administrative Code (F.A.C.).

The proposed source is located at the Hercules facility in an area (Indian River County) currently designated attainment for all criteria pollutants in accordance with F.A.C. Rule 17-2.420.



The proposed source is exempt from provisions of F.A.C. Rule 17-2.500, Prevention of Significant Deterioration, because its emissions do not exceed the PSD significant levels.

The proposed source shall be permitted under F.A.C. Rule 17-2.520, Sources Not Subject to Prevention of Significant Deterioration or Nonattainment Requirements or Nonattainment Requirements.

The proposed source shall comply with F.A.C. Rule 17-2.650(1) and (2), General Pollutant Emissions Limiting Standards.

## VI. SOURCE IMPACT ANALYSIS

### VI.1 Emissions Summary

Hercules, Inc. is a major emitting facility for sulfur dioxide (SO<sub>2</sub>) (150 tons/year). The operation of the pellet cooler will increase emissions of particulate matter (PM) by 10 tons/year. Estimated emissions of PM for the entire facility, are 76 tons per year for the.

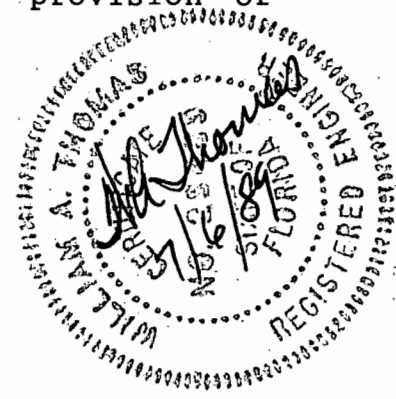
These permitted emissions are in compliance with all applicable requirements of Chapter 17-2, F.A.C.

### VI.3 Air Quality Analysis

From a technical review of the application, the Department has determined that the construction and operation of these sources will not have a detrimental impact on Florida's ambient air quality.

## VII. CONCLUSION

Based on the information provided by Hercules, Inc., the Department has reasonable assurance that the proposed construction/installation of the proposed project, as described in this evaluation and subject to the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, PSD increment, or any other technical provision of Chapter 17-2 of the Florida Administrative Code.





## Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:  
Hercules, Inc.  
7925 9th Street, S.W.  
Vero Beach, Florida 32960

Permit Number: AC 31-165145  
Expiration Date: January 1, 1990  
County: Indian River  
Latitude/Longitude: 27°35'05"N  
80°28'57"W  
Project: Pellet Cooler/Cyclone

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

To construct a pellet cooler/cyclone at the permittee's facility in Vero Beach, Indian River County, Florida.

The source shall be in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application received May 22, 1989.

PERMITTEE:  
Hercules, Inc.

Permit No. AC 31-165145  
Expiration Date: January 1, 1990

**GENERAL CONDITIONS:**

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
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. Neither 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 is not 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, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

PERMITTEE:  
Hercules, Inc.

Permit No. AC 31-165145  
Expiration Date: January 1, 1990

GENERAL CONDITIONS:

6. The permittee shall 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 and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor 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 provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including 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.

PERMITTEE:  
Hercules, Inc.

Permit No. AC 31-165145  
Expiration Date: January 1, 1990

**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 for 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 involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

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 17-4.120 and 17-30.300, F.A.C., 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 or a copy thereof shall be kept at the work site of the permitted activity.

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:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

PERMITTEE:  
Hercules, Inc.

Permit No. AC 31-165145  
Expiration Date: January 1, 1990

**GENERAL CONDITIONS:**

- b. The permittee shall hold 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) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained 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 dates 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 corrected promptly.

**SPECIFIC CONDITIONS:**

1. This source is allowed to operate 24 hours/day, 7 days/week, 32 weeks/year (during citrus harvesting season).
2. Emissions from this source shall not exceed 3.7 lbs/hour of particulate matter and 20% opacity. Compliance with the particulate matter standards shall be determined by EPA Reference Methods 1, 2, 3, 4, 5 and 9 as described in 40 CFR 60, Appendix A (July 1, 1988). The compliance test shall be conducted concurrently while the plant is operating within 10% of its permitted capacity. The Central Florida District office shall be notified at least 15 days prior to any compliance test.

PERMITTEE:  
Hercules, Inc.

Permit No. AC 31-165145  
Expiration Date: January 1, 1990

**SPECIFIC CONDITIONS:**

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

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

5. Upon obtaining a permit to operate, the permittee shall be required to submit annual reports on the emissions from this source. Annual reports shall be sent to the Central District office.

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

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

---

Dale Twachtmann, Secretary

RECEIVED  
MAY 24 1989  
DER-BAQM

APPLICATION TRACKING SYSTEM

05/22/89

APPL NO:165145

APPL RECVD:05/22/89 TYPE CODE:AC SUBCODE:1E LAST UPDATE:05/22/89

DER OFFICE RECVD:ORL DER OFFICE TRANSFER TO:ILH APPLICATION COMPLETE:00/00/00

DER PROCESSOR:J-TURNER B.Thomas

APPL STATUS:AC DATE:05/22/89 (ACTIVE/DENIED/WITHDRAWN/EXEMPT/ISSUED/GENERAL)

RELIEF: (SSAC/EXEMPTIONS/VARIANCE)

(Y/N) N MANUAL TRACKING DISTRICT:30 COUNTY:31  
(Y/N) DNR REVIEW REQD? LAT/LONG:27.35.05/80.28.57  
(Y/N) N PUBLIC NOTICE REQD? BASIN-SEGMENT: . . .  
(Y/N) N GOV BODY LOCAL APPROVAL REQD? COE #: . . . . .  
(Y/N) Y LETTER OF INTENT REQD? (I/ISSUE D/DENY) ALT#: . . . . .

PROJECT SOURCE NAME:HERCULES/PELLET COOLER

STREET:7925 9TH STREET SW

CITY:VERO BEACH

STATE:FL ZIP: . . . . .

PHONE: . . . . .

APPLICATION NAME:HERCULES, INC.

STREET:7925 9TH STREET SW

CITY:VERO BEACH

STATE:FL ZIP:32960

PHONE:407-569-3800

AGENT NAME:BOTTORF & ASSOCAITES, INC.

STREET:4595 PARKBREEZE CT

CITY:ORLANDO

STATE:FL ZIP:32808

PHONE:407-298-0846

FEE #1 DATE PAID:05/22/89 AMOUNT PAID:00200 RECEIPT NUMBER:00137922

B DATE APPLICANT INFORMED OF NEED FOR PUBLIC NOTICE - - - / /  
C DATE DER SENT DNR APPLICATION/SENT DNR INTENT - - - / /  
D DATE DER REQ. COMMENTS FROM GOV. BODY FOR LOCAL APP. - . / /  
E DATE #1 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - / /  
E DATE #2 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - / /  
E DATE #3 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - / /  
E DATE #4 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - / /  
E DATE #5 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - / /  
E DATE #6 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - / /  
F DATE GOVERNING BODY REQUESTED SURVEY RESULTS/REPORTS - - / /  
G DATE FIELD REPORT WAS REQ--REC - - - - - / /  
H DATE DNR REVIEW WAS COMPLETED - - - - - / /  
I DATE APPLICATION WAS COMPLETE - - - - - 00/00/00  
J DATE GOVERNING BODY PROVIDED COMMENTS OR OBJECTIONS - - / /  
K DATE NOTICE OF INTENT WAS SENT--REC TO APPLICANT - - - / /  
L DATE PUBLIC NOTICE WAS SENT TO APPLICANT - - - / /  
M DATE PROOF OF PUBLICATION OF PUBLIC NOTICE RECEIVED - - / /  
N WAIVER DATE BEGIN--END (DAY 90) - - - - - / /

COMMENTS:



DEPARTMENT OF ENVIRONMENTAL REGULATION

A

**ROUTING AND TRANSMITTAL SLIP**

ACTION NO

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)

Bill Thomas

Initial

Date

2.

Bureau of Air Quality Manag.

Initial

Date

3.

Department of Environmental Regulation

Twin Towers Office Building

Initial

Date

4.

2600 Blair Stone Road

Tallahassee, FL 32399-2400

Initial

Date

REMARKS:

Please process as Hercules is a major facility.

INFORMATION

Review & Return

Review & File

Initial & Forward

DISPOSITION

Review & Respond

Prepare Response

For My Signature

For Your Signature

Let's Discuss

Set Up Meeting

Investigate & Report

Initial & Forward

Distribute

Concurrence

For Processing

Initial & Return

FROM:

John Turner

DATE

5/23/89

PHONE

SC 325-1202

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

**Nº 187922**

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Hercules Inc. Date May 23, 1989

Address 7925 9<sup>th</sup> St. SW Univ Bldg 30560 Dollars \$ 200.00

Applicant Name & Address \_\_\_\_\_

Source of Revenue None

Revenue Code 001031 Ch 10897 Application Number AC 31-165145

By K. Lullak

DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER DISTRICT

3319 MAGUIRE BOULEVARD SUITE 232 ORLANDO, FLORIDA 32808

200  
MAY 22 1989



AC 31-165145  
RECEIVED MAY 8 1 1989

BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

ALEX SENKEVICH DISTRICT MANAGER

CENTRAL FLORIDA DISTRICT

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: PELLET COOLER [ ] New<sup>1</sup> [X] Existing<sup>1</sup>

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

COMPANY NAME: HERCULES, INC. COUNTY: INDIAN RIVER

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) PELLET COOLER/CYCLONE

SOURCE LOCATION: Street 7925 9th STREET, S.W. City VERO BEACH

UTM: East 17-754.99 KM North 3051.02 KM

Latitude 27° 35' 05"N Longitude 80° 28' 57"W

APPLICANT NAME AND TITLE: JOSEPH P. STIDHAM, PLANT MANAGER

APPLICANT ADDRESS: 7925 9th STREET, S.W., VERO BEACH, FLORIDA 32960-329108

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative\* of HERCULES, INC.

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

\*Attach letter of authorization

Signed: Joseph P. Stidham

JOSEPH P. STIDHAM, PLANT MANAGER  
Name and Title (Please Type)

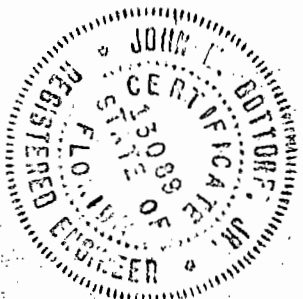
Date: 5/15/89 Telephone No. 407/569-3800

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

<sup>1</sup> See Florida Administrative Code Rule 17-2.100(57) and (104)

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



Signed John W. Bottorf, Jr.  
 JOHN W. BOTTORF, JR.  
 Name (Please Type)  
 BOTTORF & ASSOCIATES, INC.  
 Company Name (Please Type)  
 4595 PARKBREEZE CT., ORLANDO, FLORIDA 32808-1057  
 Mailing Address (Please Type)

Florida Registration No. 13089 Date: 5/18/89 Telephone No. 407/298-0846

**SECTION II: GENERAL PROJECT INFORMATION**

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

THIS PROJECT IS FOR THE PERMITTING OF AN EXISTING PELLET COOLER CONTROLLED WITH A CYCLONE MANUFACTURED BY SPROUT BAUER, HAVING AN ESTIMATED EFFICIENCY OF 80%. ALSO FOR THE CONSTRUCTION OF STRAIGHTENING VANES, STACK EXTENTION, SAMPLING PORTS AND SAMPLE PLATFORM, AS SHOWN ON THE ATTACHED DRAWINGS. THIS PROJECT SHOULD RESULT IN FULL COMPLIANCE.

B. Schedule of project covered in this application (Construction Permit Application Only)  
TEST FACILITY,  
 Start of Construction AFTER PERMIT ISSUANCE Completion of Construction 1 YR. AFTER START

C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

UNKNOWN: NO INFORMATION FROM THE MANUFACTURER ON THE PELLET COOLER OR THE CYCLONE COULD BE OBTAINED.

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

E. Requested permitted equipment operating times: hrs/day 24; days/wk 7; wks/yr 32; if power plant, hrs/yr \_\_\_\_\_; if seasonal, describe: DURING CITRUS HARVESTING SEASON

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

1. Is this source in a non-attainment area for a particular pollutant? NO

a. If yes, has "offset" been applied? \_\_\_\_\_

b. If yes, has "Lowest Achievable Emission Rate" been applied? \_\_\_\_\_

c. If yes, list non-attainment pollutants: \_\_\_\_\_

2. Does best available control technology (BACT) apply to this source? If yes, see Section VI. NO

3. Does the State "Prevention of Significant Deterioration" (PSD) requirement apply to this source? If yes, see Sections VI and VII. NO

4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source? NO

5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? NO

H. Do "Reasonably Available Control Technology" (RACT) requirements apply to this source? NO

a. If yes, for what pollutants? \_\_\_\_\_

b. If yes, in addition to the information required in this form, any information requested in Rule 17-2.650 must be submitted.

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

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

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
CITRUS PEEL(DRY)	PARTICULATE	0.21	8800	(A)

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

1. Total Process Input Rate (lbs/hr): 8800

2. Product Weight (lbs/hr): 8800

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

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission Rate per Rule 17-2	Allowable Emission lbs/hr <sup>3</sup>	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
PARTICULATE	3.65	9.81	.610(1) <sup>6</sup> / <sub>b</sub>	9.00	98112	49.06	(B)

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

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

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

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

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
CYCLONE	PARTICULATE	80%	5 AND LARGER	ESTIMATE
SPROUT BAUER				
MODEL & SERIAL				
NUMBERS NOT AVAILABLE				

E. Fuels N/A

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	

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

Fuel Analysis:

Percent Sulfur: \_\_\_\_\_ Percent Ash: \_\_\_\_\_

Density: \_\_\_\_\_ lbs/gal Typical Percent Nitrogen: \_\_\_\_\_

Heat Capacity: \_\_\_\_\_ BTU/lb. \_\_\_\_\_ BTU/gal

Other Fuel Contaminants (which may cause air pollution): \_\_\_\_\_

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

Annual Average \_\_\_\_\_ Maximum \_\_\_\_\_

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

NO LIQUID WASTE WILL BE GENERATED. DUST COLLECTED IN THE CYCLONE IS RECYCLED BACK TO THE PELLETT MILL AND SOLD WITH THE REST OF THE CITRUS PULP.

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

Stack Height: 36 ft. Stack Diameter: 3.0 ft.  
 Gas Flow Rate: 13,014 ACFM 11,780 DSCFM Gas Exit Temperature: 100 °F.  
 Water Vapor Content: 4.0 % Velocity: 30.68 FPS

SECTION IV: INCINERATOR INFORMATION

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

Description of Waste \_\_\_\_\_

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

Approximate Number of Hours of Operation per day \_\_\_\_\_ day/wk \_\_\_\_\_ wks/yr.

Manufacturer \_\_\_\_\_

Date Constructed \_\_\_\_\_ Model No. \_\_\_\_\_

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

Stack Height: \_\_\_\_\_ ft. Stack Diameter: \_\_\_\_\_ Stack Temp. \_\_\_\_\_

Gas Flow Rate: \_\_\_\_\_ ACFM \_\_\_\_\_ DSCFM\* Velocity: \_\_\_\_\_ FPS

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

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



Brief description of operating characteristics of control devices: \_\_\_\_\_

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

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

#### SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

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

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

**SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY**

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

Yes  No

Contaminant	Rate or Concentration

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

Yes  No

Contaminant	Rate or Concentration

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

Contaminant	Rate or Concentration

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

- |                           |                          |
|---------------------------|--------------------------|
| 1. Control Device/System: | 2. Operating Principles: |
| 3. Efficiency:*           | 4. Capital Costs:        |

\*Explain method of determining

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

10. Stack Parameters

- a. Height: ft.
- b. Diameter: ft.
- c. Flow Rate: ACFM
- d. Temperature: °F.
- e. Velocity: FPS

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

1.

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

2.

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

<sup>1</sup>Explain method of determining efficiency.

<sup>2</sup>Energy to be reported in units of electrical power - KWH design rate.

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

3.

a. Control Device:

b. Operating Principles:

c. Efficiency:<sup>1</sup>

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:<sup>2</sup>

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

4.

a. Control Device:

b. Operating Principles:

c. Efficiency:<sup>1</sup>

d. Capital Costs:

e. Useful Life:

f. Operating Cost:

g. Energy:<sup>2</sup>

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

F. Describe the control technology selected:

1. Control Device:

2. Efficiency:<sup>1</sup>

3. Capital Cost:

4. Useful Life:

5. Operating Cost:

6. Energy:<sup>2</sup>

7. Maintenance Cost:

8. Manufacturer:

9. Other locations where employed on similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

<sup>1</sup>Explain method of determining efficiency.

<sup>2</sup>Energy to be reported in units of electrical power - KWH design rate.

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant

Rate or Concentration


(8) Process Rate:<sup>1</sup>

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant

Rate or Concentration


(8) Process Rate:<sup>1</sup>

10. Reason for selection and description of systems:

<sup>1</sup>Applicant must provide this information when available. Should this information not be available, applicant must state the reason(a) why.

SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION

A. Company Monitored Data

1. \_\_\_\_\_ no. sites \_\_\_\_\_ TSP \_\_\_\_\_ ( ) SO<sub>2</sub>\* \_\_\_\_\_ Wind spd/dir

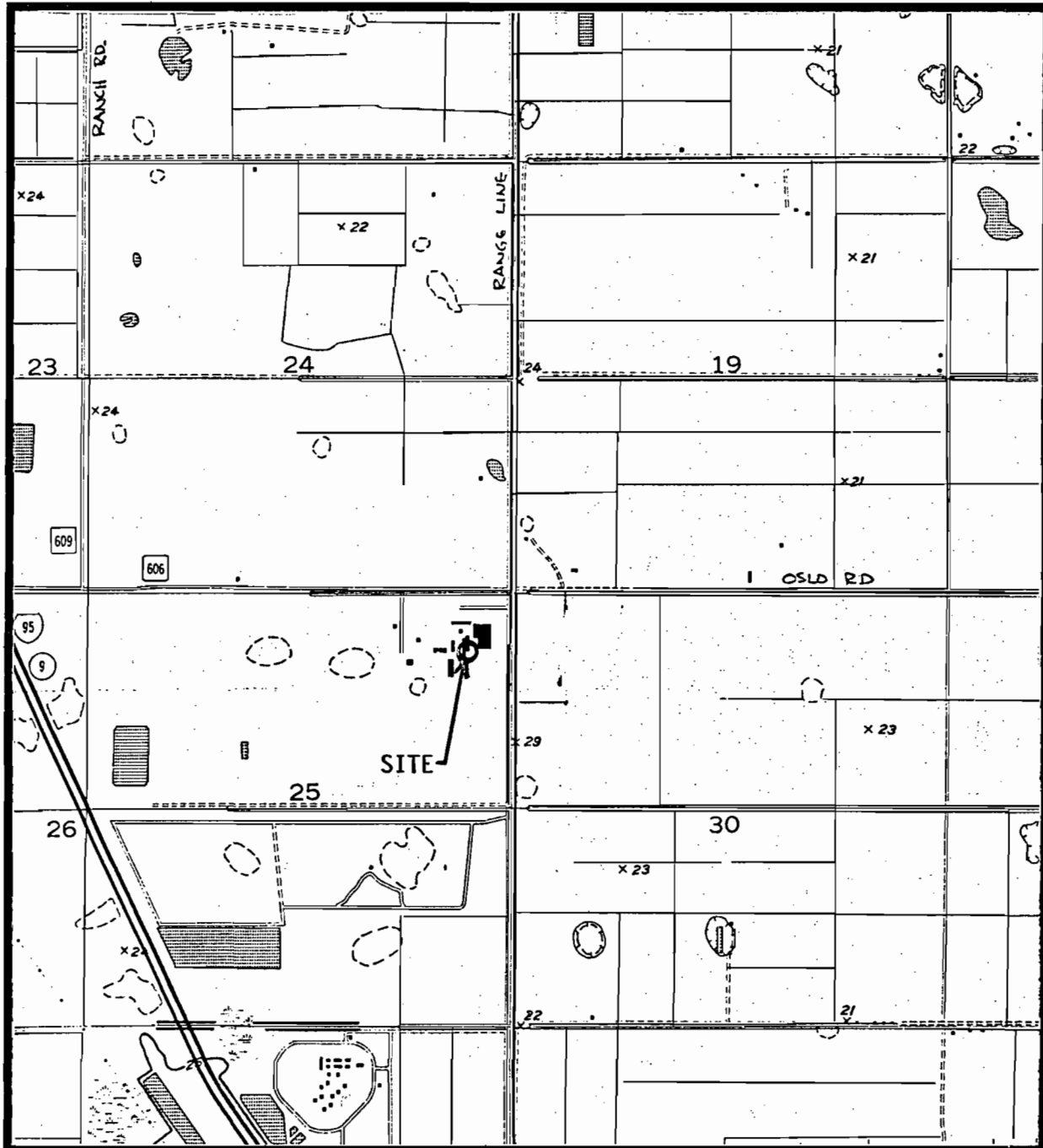
Period of Monitoring \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ to \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
month day year month day year

Other data recorded \_\_\_\_\_

Attach all data or statistical summaries to this application.

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





LOCATION MAP



<b>BOTTORF Associates, inc.</b>		
HERCULES, INC. VERO BEACH, INDIAN RIVER CO., FL		
USGS MAP Description	Drawn by N/A	215-4 Project Number
Scale 1:24000	Date 5-5-89	

HERCULES, INC.

PELLET COOLER PARTICULATE EMISSION CALCULATIONS

ALLOWABLE EMISSION RATE

BASED ON RULE 17-2.610 (1) B (PROCESS WEIGHT TABLE)  $E = 3.59(P)^{0.62}$

$$\text{ALLOWABLE} = E = 3.59 (4.4)^{0.62} = 9.00 \text{ LBS/HR.} \times \frac{5376 \text{ HR/YR.}}{2000 \text{ LBS/TON}} = 24.19 \text{ TONS/YR.}$$

ACTUAL EMISSION RATE

BASED ON AVERAGE EMISSION RATES FROM SIMILAR SOURCES, AN EMISSION FACTOR OF 0.83 LBS. OF PARTICULATE/TON OF PRODUCT (CONTROLLED) WAS DETERMINED.

$$\text{ACTUAL} = (0.83 \text{ LBS/TON}) (4.4 \text{ TONS/HR.}) = 3.65 \text{ LBS/HR.} \times \frac{5376 \text{ HR/YR.}}{2000 \text{ LBS/TON}} = 9.81 \text{ TONS/YR.}$$

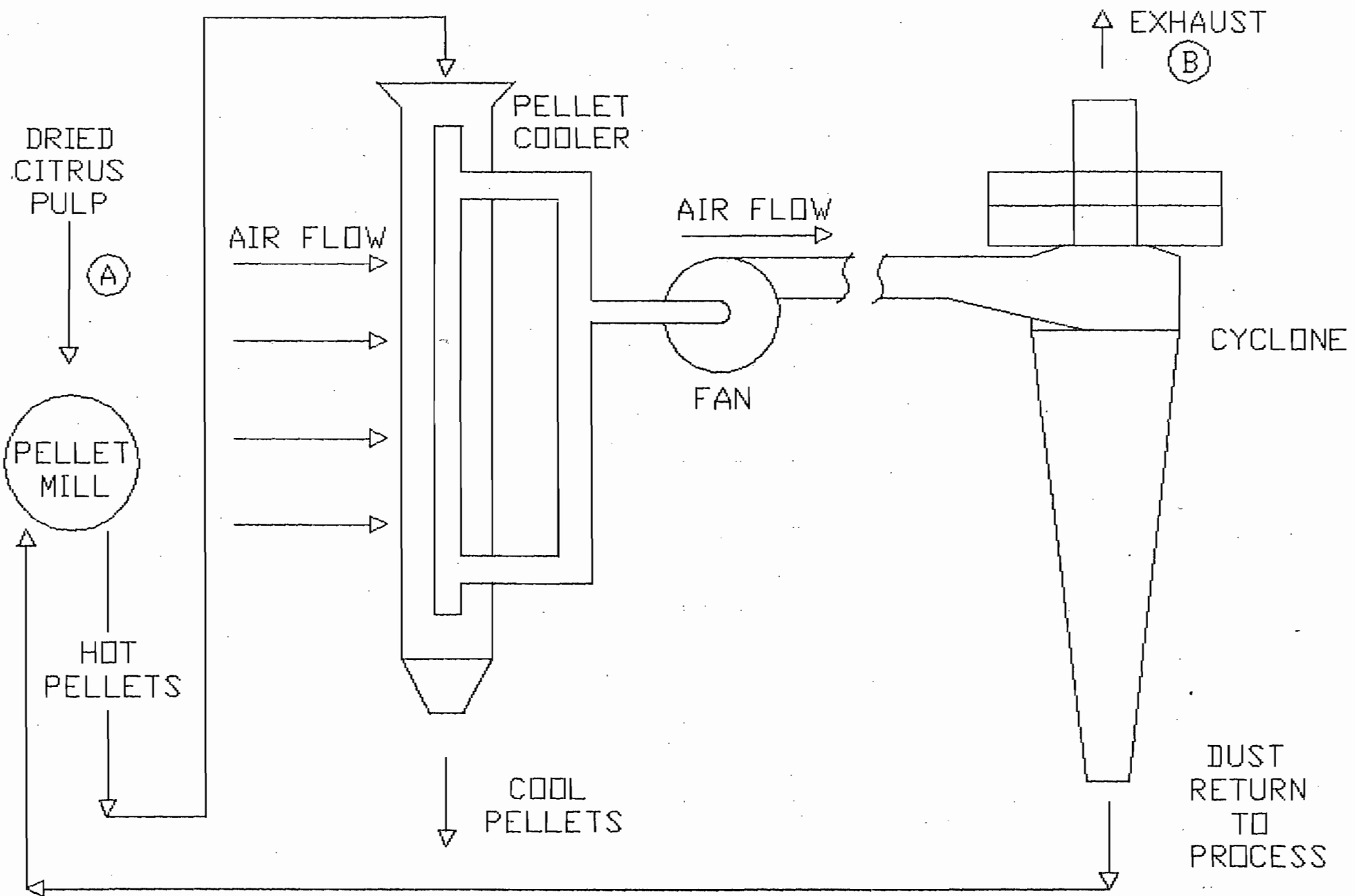
UNCONTROLLED EMISSION RATE (POTENTIAL)

BASED ON THE ACTUAL EMISSION RATE AND AN ASSUMED CONTROL EFFICIENCY OF 80%.

$$\text{UNCONTROLLED} = \frac{\text{ACTUAL}}{(1-.80)} = \frac{3.65}{1-.80} = 18.25 \text{ LBS/HR.} \times \frac{5376 \text{ HR/YR.}}{2000 \text{ LBS/TON}} = 49.06 \text{ TONS/YR.}$$







BOTTORF  
Associates, inc.

HERCULES, INC.  
PELLET COOLER FLOW DIAGRAM

DRAWN BY KDB  
DATE 5/3/89

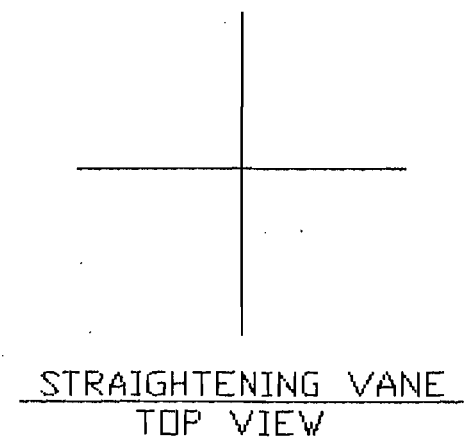
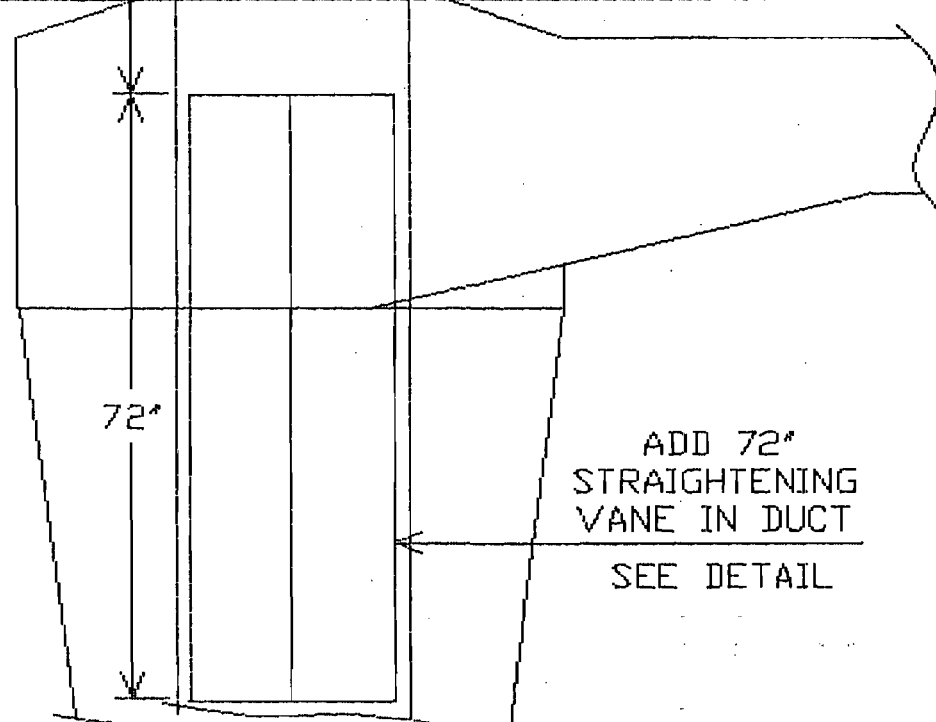
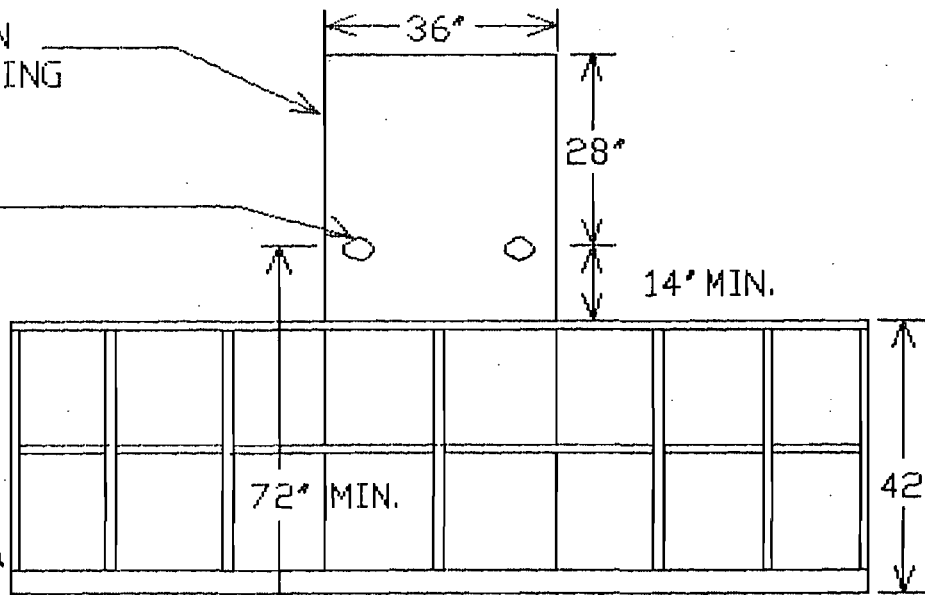
DESCRIPTION RTC  
SCALE NTS

ADD 5' EXTENSION  
TO TOP OF EXISTING  
STACK

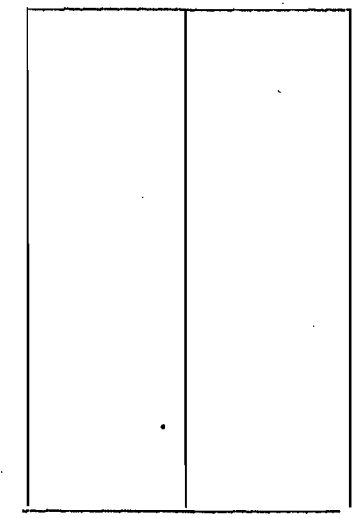
ADD PORTS  
AS SHOWN

4' TOERAIL

ADD PLATFORM  
AND CAGED  
ACCESS LADDER



STRAIGHTENING VANE  
TOP VIEW



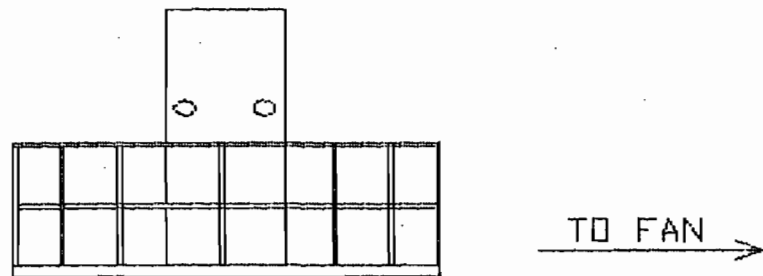
STRAIGHTENING VANE  
SIDE VIEW

ADD 72"  
STRAIGHTENING  
VANE IN DUCT  
SEE DETAIL

BOTTORF  
Associates, inc.

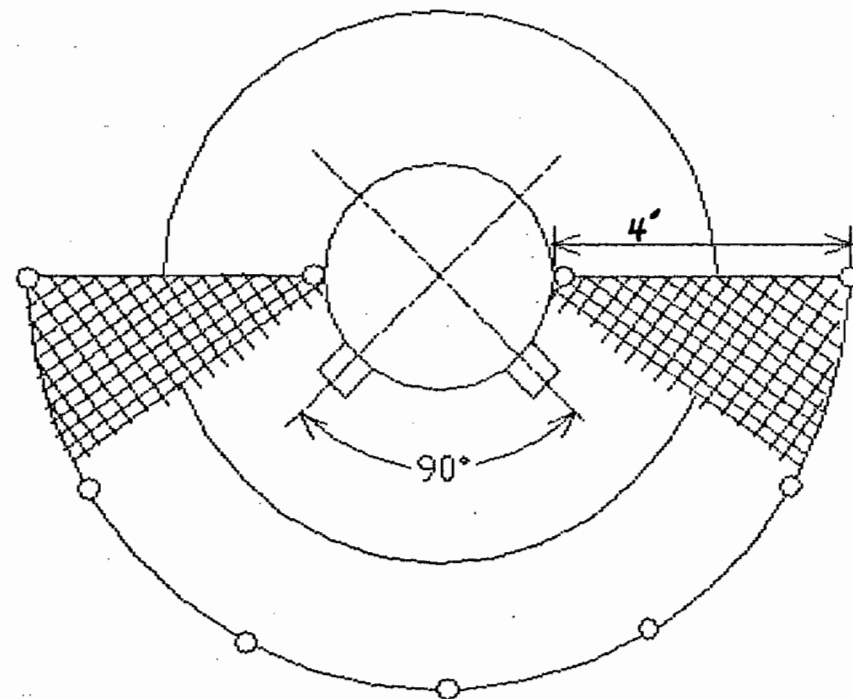
HERCULES, INC.  
PROPOSED CYCLONE MODIFICATIONS

DRAWN BY	KDB	DESCRIPTION	RTC
DATE	5/1/89	SCALE	NO SCALE



CYCLONE AND PROPOSED TESTING PLATFORM  
SCALE 1" = 5'

FROM PELLET MILL  
←



CYCLONE PLATFORM  
TOP VIEW  
NO SCALE

SHEET 1 OF 2

BOTTORF  
Associates, inc.

HERCULES, INC.  
PROPOSED CYCLONE MODIFICATIONS

DRAWN BY KDB  
DATE 5/1/89

DESCRIPTION RTC  
SCALE AS NOTED

DATE \_\_\_\_\_ NO. \_\_\_\_\_

AUTHOR \_\_\_\_\_

