

Check Sheet

Company Name: E. I. Dupont
Permit Number: AC 04-146205
PSD Number:
County: Bradford
Permit Engineer:
Others involved:

Application:

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

Intent:

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

Attachments:

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

Final Determination:

- Final Determination
- Signed Permit
- BACT Determination

Post Permit Correspondence:

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

*Certified Mail P 477 458 029
9-23-84 Starke, FL*

file copy



ESTABLISHED 1802

E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED

FLORIDA PLANT
P.O. Box 753
STARKE, FLORIDA 32091

CHEMICALS AND PIGMENTS DEPARTMENT

September 22, 1988

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

MR. C. H. Fancy
Bureau of Air Quality Management
Florida Department of Environmental Reg.
2600 Blairstone Road
Tallahassee, Florida 32399-2400

Reference Permit No. AC 04-146205

Dear Mr. Fancy:

Du Pont requests a sixty day extension to the above referenced permit. The requested extension will allow the installation of weight-density gauge prior to the required PM and VE test to be submitted with the application for the operating permit. Previous measuring methodology will be enhanced with the addition of the weight-density gauge at the turntable discharge belt and prior to the rotary kiln.

If there are any questions regarding this matter, please contact me at (904) 964-6980.

Sincerely,

M. E. Brimhall
SH&E Coordinator

CC: D. V. Luebke, Du Pont
W. Stewart, NE District
J. Koogler, Koogler & Assoc.

*copied: Millard Hanks
CHA/BT*

RECEIVED

SEP 26 1988

DER-BAQM

CH-3564 REV. 5-83

AFTER FIVE DAYS RETURN TO



ESTABLISHED 1802

E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED
FLORIDA PLANT
P.O. BOX 753
STARKE, FLORIDA 32091



RETURN RECEIPT REQUESTED

Mr. C. H. Fancy
Bureau of Air Quality Management
Florida Department of Environmental Reg.
2600 Blairstone Road
Tallahassee, FL 32399-2400



P 702 177 472
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL

(See Reverse)

PS Form 3800, June 1985

Sent to Mr. Don Luebke, E.I. DuPont de	
Street and No. Nemours & Co. P.O. Box 753	
P.O., State and ZIP Code Starke, FL 32091	
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 Permit: AC 04-146205 Mailed: 8-3-88	

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

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

3. Article Addressed to: Mr. Don Luebke, Plant Manager E.I. DuPont de Nemours & Co., Inc. P.O. Box 753 Starke, FL 32091	4. Article Number P 702 177 472
	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
Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> .	
5. Signature -- Addressee X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature -- Agent X <i>Steve W. [Signature]</i>	<i>8-4-88</i>
7. Date of Delivery <i>Steve</i>	

UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.

- Complete items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.

RETURN
TO



Print Sender's name, address, and ZIP Code in the space below.

Dept. of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, FL 32399-2400
Attn: Patty Adams

RECEIVED

AUG 8 1988

DER - BAQM



PENALTY FOR PRIVATE
USE, \$300



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT

Mr. Don Luebke, Plant Manager
E.I. DuPont de Nemours & Co., Inc.
Post Office Box 753
Starke, Florida 32091


August 3, 1988

Enclosed is construction permit No. AC 04-146205 for E.I. DuPont de Nemours & Company, Inc. to increase production of the Highland ilmenite dryer plant that is located on State Road 125 near Lawtey, Bradford 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

for 
C. H. Fancy, P.E.

Deputy Chief
Bureau of Air Quality Management

Copy furnished to:

B. Stewart, NE District
J. Koogler, P.E., Koogler & Assoc.
M. E. Brimhall, DuPont

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 3, 1988.

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

Matthew J. Jellison August 3, 1988
Clerk Date

Final Determination

E.I. DuPont de Nemours & Company, Inc.
Lawtey, Bradford County, Florida

Highland Ilmenite Dryer
Permit No. AC 04-146205

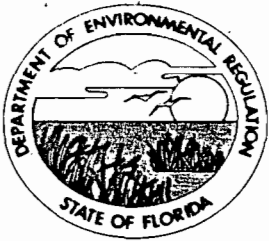
Florida Department of Environmental Regulation
Bureau of Air Quality Management
Central Air Permitting

July 28, 1988

Final Determination

The Technical Evaluation and Preliminary Determination for an increase in production by E.I. DuPont de Nemours & Company, Inc.'s Highland Ilmenite Dryer, which is located near Lawtey, Bradford County, Florida, was distributed on June 29, 1988. The Notice of Proposed Agency Action for this permit was published in The Bradford County Telegraph on July 7, 1988. Copies of the evaluation were available for public inspection at the Department's offices in Tallahassee and Jacksonville.

No comments on the evaluation were received by the Department. The final action of the Department will be to issue the permit to construct as proposed in the Technical Evaluation and Preliminary Determination.



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:

E.I. DuPont de Nemours &
Company, Inc.
Post Office Box 753
Starke, Florida 32091

Permit Number: AC 04-146205

Expiration Date: December 31, 1988

County: Bradford

Latitude/Longitude: 30° 03' 12"N
82° 03' 04"W

Project: Highland Ilmenite Dryer

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (FAC) Rules 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:

Authorization to increase the production of the Highland ilmenite plant from 40 TPH to 76.16 TPH. The plant consists of a radial stacker belt conveyor, stock pile of scrubbed wet mill concentrate ore, dryer feed hopper, bin loading belt conveyor, disk feeder bin, dryer feed belt conveyor, rotary dryer with oil burner, dust cyclone, oversize belt conveyor, and oversize trash pile. The plant is located 1.1 miles east of U.S. Highway 301 on State Road 125 near Lawtey, Bradford County, Florida. The UTM coordinates of this site are Zone 17, 398.7 km E and 3325.0 km N.

Attachments:

1. Application received February 26, 1988.
2. DER letter dated March 15, 1988.
3. DuPont letter dated May 11, 1988.

PERMITTEE:
E.I. DuPont de Nemours &
Company, Inc.

Permit Number: AC 04-146205
Expiration Date: December 31, 1988

GENERAL CONDITIONS:

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

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

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

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

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

PERMITTEE:
E.I. DuPont de Nemours &
Company, Inc.

Permit Number: AC 04-146205
Expiration Date: December 31, 1988

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
E.I. DuPont de Nemours &
Company, Inc.

Permit Number: AC 04-146205
Expiration Date: December 31, 1988

GENERAL CONDITIONS:

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

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

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

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

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

13. This permit also constitutes:

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

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

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

PERMITTEE:
E.I. DuPont de Nemours &
Company, Inc.

Permit Number: AC 04-146205
Expiration Date: December 31, 1988

GENERAL CONDITIONS:

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

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

SPECIFIC CONDITIONS:

1. Dryer production shall not exceed 76.16 TPH. The permittee shall have instruments or other means available to determine the production of this dryer.

2. Heat input by No. 6 fuel oil to the dryer shall not exceed 22.0 MMBtu/hr. Approximately 150 GPH is equivalent to this heat input. Sulfur content of the fuel oil shall not exceed 2.8%. A log of the fuel oil consumption of the dryer and invoices of the fuel oil purchases that give its sulfur content shall be maintained to show compliance with this condition.

PERMITTEE:
E.I. DuPont de Nemours &
Company, Inc.

Permit Number: AC 04-146205
Expiration Date: December 31, 1988

SPECIFIC CONDITIONS:

3. Particulate matter emissions from the dryer, as determined by Method 5 which is described in 40 CFR 60, Appendix A, shall not exceed the amount allowed by the process weight table (Rule 17-2.610(1)(b), FAC) and 33.2 lbs/hr.

4. Visible emissions from the dryer, as determined by Method 9 which is described in 40 CFR 60, Appendix A, shall not exceed 20% opacity, 6 minute average.

5. Unconfined emissions shall be minimized by wetting the fines discharged from the cyclone and any other part of the plant that is dusty. Alternate precautions may be used on conveyors and other equipment.

6. The plant may operate continuously, 8760 hours per year.

7. All compliance tests shall be conducted while the dryer is operating within 10% of its permitted capacity. Except during compliance tests, the dryer shall not be operated above its permitted rate. The particulate matter emissions and visible emissions shall be determined concurrently. Under circumstances when this is not feasible, the permittee shall obtain prior approval from the Northeast District to conduct the tests at separate times. In such circumstances, the tests shall be conducted as close to each other as is feasible. The Northeast District shall be notified in writing at least 15 days prior to any compliance test. A tests report that provides the information required by Rule 17-2.700(7), FAC, shall be submitted to the District within 45 days of the date of the testing.

8. The permittee shall demonstrate compliance with the conditions of this construction permit and submit a complete application for permit to operate to the Department's Northeast District at least 90 days prior to the expiration date of this construction permit. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date.

9. Any permit to operate issued for this source shall require an annual operation report which includes, as a minimum, a recent particulate matter and visible emission tests report.

PERMITTEE:
E.I. DuPont de Nemours &
Company, Inc.

Permit Number: AC 04-146205
Expiration Date: December 31, 1988

Issued this 28 day of July,
1988

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

Dale Twachtman
Dale Twachtman, 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 *[Signature]*

SUBJ: Approval of E.I. DuPont de Nemours & Co. Inc.,
State Construction Permit No. AC 04-146205

DATE: July 28, 1988

RECEIVED

JUL 28 1988

DER-BAQM

Attached for your approval and signature is a permit prepared by Central Air Permitting for the above mentioned company to increase the production of the ilmenite dryer at their Highland plant.

The facility is located near Lawtey, Bradford County, Florida. No comments were received during the public notice period.

Day 90, after which this permit will be issued by default, is September 10, 1988.

I recommend your approval and signature.

SS/aqm/wh

attachments

RECEIVED

JUL 28 1988

Office of the Secretary

P 274 007 483

RECEIPT FOR CERTIFIED MAILNO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL*(See Reverse)** U.S.G.P.O. 1985-480-794


PS Form 3800, June 1985

Sent to Mr. Don Luebke, E.I. DuPont	
Street and No. P.O. Box 753	
P.O., State and ZIP Code Starke, FL 32091	
Postage	S
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	S
Postmark or Date Mailed: 10-24-88 Permit: AC 04-146205	

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

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

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

3. Article Addressed to: Mr. Don Luebke, Plant Manager E.I. DuPont de Nemours & Co., Inc. P. O. Box 753 Starke, Florida 32091	4. Article Number P 274 007 483 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 Always obtain signature of addressee or agent and <u>DATE DELIVERED.</u>
5. Signature - Addressee X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent 	
7. Date of Delivery 10-26-88	

UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.

- Complete items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.

RETURN
TO



Print Sender's name, address, and ZIP Code in the space below.

Dept. of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, FL 32399-2400
Attn: Patty Adams

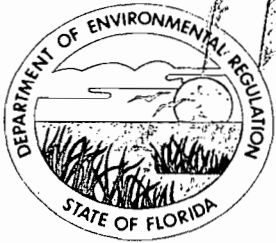
RECEIVED

OCT 27 1988

DER-BAQM



PENALTY FOR PRIVATE
USE, \$300



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

October 18, 1988

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Don Luebke, Plant Manager
E.I. DuPont de Nemours & Company, Inc.
Post Office Box 753
Starke, Florida 32091

Dear Mr. Luebke:

Re: Amendment of Construction Permit No. AC 04-146205

The Department is in receipt of Mr. M. E. Brimhall's September 22, 1988, letter requesting the permit to construct your ilmenite dryer plant be extended to allow additional time to install a weight-density gauge prior to conducting the compliance tests. This request is acceptable and the expiration date of construction permit No. AC 04-146205 is extended from December 31, 1988, to March 31, 1989.

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

Sincerely,

Dale Twachtmann
Secretary

DT/ks

attachment

cc: W. Stewart, NE District
M. Brimhall, DuPont

BEST AVAILABLE COPY

CH-1071 REV. 5-83



E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED

FLORIDA PLANT
P.O. BOX 753
STARKE, FLORIDA 32091

CHEMICALS AND PIGMENTS DEPARTMENT

September 22, 1988

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

MR. C. H. Fancy
Bureau of Air Quality Management
Florida Department of Environmental Reg.
2600 Blairstone Road
Tallahassee, Florida 32399-2400

Reference Permit No. AC 04-146205

Dear Mr. Fancy:

Du Pont requests a sixty day extension to the above referenced permit. The requested extension will allow the installation of weight-density gauge prior to the required PM and VE test to be submitted with the application for the operating permit. Previous measuring methodology will be enhanced with the addition of the weight-density gauge at the turntable discharge belt and prior to the rotary kiln.

If there are any questions regarding this matter, please contact me at (904) 964-6980.

Sincerely,

M. E. Brimhall
SH&E Coordinator

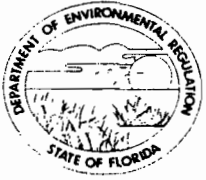
CC: D. V. Luebke, Du Pont
W. Stewart, NE District
J. Koogler, Koogler & Assoc.

*copied: Richard Marks
CHP/ST*

RECEIVED

SEP 26 1988

DER-BAQM



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

Interoffice Memorandum

TO: Dale Twachtmann
FROM: Steve Smallwood *[Signature]*
DATE: October 18, 1988
SUBJ: Amendment of a Permit to Construct

RECEIVED

OCT 19 1988

Office of the Secretary

Attached for your approval and signature is a letter that will extend the expiration date of a construction permit issued to DuPont for a mineral dryer. The extension will allow time for the permittee to install a weight-density gauge prior to doing the compliance test.

This request is not controversial. I recommend this amendment be approved.

CHF/WH/s

attachment



E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED

FLORIDA PLANT
P.O. Box 753
STARKE, FLORIDA 32091

PM
7-15-88
Starke, FL

file copy

July 15, 1988

CHEMICALS AND PIGMENTS DEPARTMENT

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

RECEIVED

JUL 18 1988

DER-BAQM

Mr. Willard Hanks
Department of Environmental Regulation
2600 Blairstone Road
Tallahassee, Fl 32399-2400

Subject: File No. 04-146205, Request to
Increase Production of the
Highland Ilmentite Dryer



Dear Mr. Hanks:

Enclosed is a certified proof of publication notice from the
Bradford County Telegraph that you require pursuant to our
telephone conversation of July 13, 1988.

Sincerely,

Jon A. Samborski
Jon A. Samborski
Senior Engineer

cc: M.E. Brimhall - DuPont

*copied: Willard Hanks
Bill Stewart, NE Dist } 7-19-88*

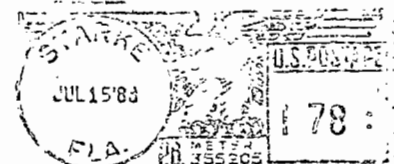
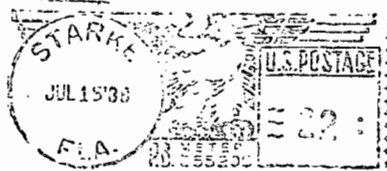
CH-3564 REV. 5-83

AFTER FIVE DAYS RETURN TO



ESTABLISHED 1802

E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED
FLORIDA PLANT
P.O. BOX 753
STARKE, FLORIDA 32091



Mr. Willard Hanks
Department of Environmental Regulation
2600 Blairstone Road
Tallahassee, FL 32399-2400

BEST AVAILABLE COPY

The Bradford County Telegraph

Published Weekly
Starke, Bradford County, Florida

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 Depart-

STATE OF FLORIDA,
COUNTY OF BRADFORD:

Before the undersigned authority personally appeared B.G. Ferguson, who on oath says that he is publisher of THE BRADFORD COUNTY TELEGRAPH, a weekly newspaper published at Starke in Bradford County, Florida; that the attached copy of advertisement, being a _____

Notice

in the matter of intent to issue a permit which will authorize E.I. DuPont de Nemours & co. an increase in production
in the _____ Court, was published in said newspaper in the issues of 7/7/88

Affiant further says that the said BRADFORD COUNTY TELEGRAPH is a newspaper published at Starke, in said Bradford County, Florida, and that the said newspaper has heretofore been continuously published in said Bradford County, Florida, once each week and has been entered as second class mail matter at the post office in Starke, in said Bradford 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.

ment's final action may be different from the proposed agency action. Therefore, persons who may not wish to file a petition may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Rule 28-5.207, Florida Administrative Code, at least five (5) days before the final hearing and be filed with the hearing officer if one has been assigned at the Division of Administrative Hearings, Department of Administration, 2009 Apalachee Parkway, Tallahassee, Florida 32301. If no hearing officer has been assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes.

Sworn to and subscribed before me

this 7 day of July Bob D Ferguson
A.D. 19 88

Barbara Nail
(SEAL) Notary Public

STATE OF FLORIDA
DEPT. OF ENVIRONMENTAL
REGULATION

NOTICE OF INTENT

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit which will authorize E.I. DuPont de Nemours & Company, Incorporated an increase in production of the Highlands ilmenite dryer plant that is located on State Road 125 near Lawtey, Bradford County, Florida. The increased emissions of particulate matter, sulfur dioxide, and nitrogen oxide will not cause or contribute to a violation of any ambient air quality standard. A best available control technology determination was not required for this project. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative determination (hearing) in accordance with Section 120.57, Florida Statutes. The petition must conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32399-2400, within

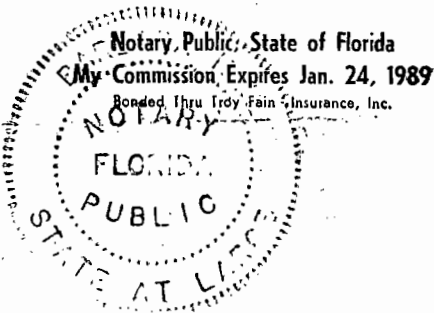
The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

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

Dept. of Environmental Regulation
Northeast District
3426 Bills Road
Jacksonville, Florida 32207

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.

Itchg 7/7
Control 0754



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CMI P 477-458-025

PM
7 Jul. 1988

File Copy

CH-1071 REV. 5-83



REG. U.S. PAT. & TM. OFF.
ESTABLISHED 1802

E. I. DU PONT DE NEMOURS & COMPANY

INCORPORATED

FLORIDA PLANT

P.O. Box 753

STARKE, FLORIDA 32091

RECEIVED

JUL 11 1988

DER-BAQM

CHEMICALS AND PIGMENTS DEPARTMENT

July 7, 1988

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. C. H. Fancy, P.E.
Bureau of Air Quality Management
Florida Department of Environmental Reg.
2600 Blairstone Road
Tallahassee, Florida 32399

Reference: File No. 04-146205, Request to
Increase Production of The
Highland Ilmenite Dryer

Dear Mr. Fancy:

Please find attached a copy of the published "Notice of Intent"
per your letter dated June 28, 1988. The notice appeared in the
July 7, 1988 edition of the Bradford County Telegraph.

Sincerely,

M. E. Brimhall
SH&E Coordinator

Attachment

*Called DuPont on 7-12-88 @ 10:40am
to speak w Mr. Suebke re: reading the
affidavit for the public notice. Left
message to return our call. 7-12-88*

7-12-88 3:45 PM

*Maggie,
I told DuPont
we needed original
proof of publication.
Maggie*

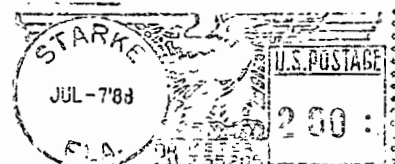
CH-3564 REV. 5-83

AFTER FIVE DAYS RETURN TO



ESTABLISHED 1802

E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED
FLORIDA PLANT
P.O. BOX 753
STARKE, FLORIDA 32091



RETURN RECEIPT REQUESTED

Mr. C. H. Fancy, P.E.
Bureau of Air Quality Management
Florida Department of Environmental Reg.
2600 Blairstone Road
Tallahassee, FL 32399



BEST AVAILABLE COPY

BEST AVAILABLE COPY

112938 070188
DUPONT MINING
BOX 753
STARKE

**BOX
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FL 32091-

The Bradfo

SINCE 1879

Telegraph

The Sweetest Strawberries This Side of Heaven

108th Year
51st Issue

STARKE, FLORIDA
Thursday, July 7, 1988

25 Cents Copy
USPS 062-700

Inside...

Two Sections

SECTION A: 10 Pages
 Hard News.....1-3,10A
 Editorial Page.....4A
 The Social Scene.....5-6A
 Public Notices.....7A

SECTION B: 12 Pages
 Fourth.....1B
 Gardener.....5B
 Tennis.....6,11B
 Area Deaths.....7B
 Classified Ads.....8-10B

with attendant according to the

ast winds, 10-15 n the afternoon. 7, look for much 70's and highs

ing watched by into a storm at

week, in central

Starke Council Holds to Blue Laws on Sunday Liquor Sales

By Rahn
 Writer
 Commissioners turned down a
 ing Sunday liquor sales
 Bradford County Sunday
 Tuesday, July 5, in a
 cil meeting.
 is, a former Starke
 represented Jax Liquors

before the council, saying that he
 had built the Jax Liquor building on
 south US-301 in 1984. Harris said Jax
 Liquors has been a good neighbor in
 the community, operating a
 reputable business. He asked the
 council to amend city ordinances to
 allow Jax Liquors to compete with
 stores in the county, which can sell

alcoholic beverages on Sunday from
 1 p.m. to 11 p.m. Inside the city
 limits of Starke, no alcoholic
 beverages can be sold on Sunday at
 all.
 Commissioner Charles Schaefer
 said he was aware of the request,
 and that Jax Liquors has no plans to
 operate a lounge. The request per-

tains only to the sale of packaged li-
 quor.
 Schaefer moved to adopt the coun-
 ty liquor ordinance. The motion died
 for lack of a second.
 Harris left the meeting without
 further comment.

Rezoning Confirmed...
 Zoning Director Darrell O'Neal
 advised the council that the zoning
 board had heard a request by Louis
 Miloti to rezone a parcel on N. Myr-
 tle St., to correct a non-conforming
See Liquor... P.2A



UCAP May Have Won Hearing

U-CAP, the militant organization
 of Bradford and Union County
 United Citizens Against Pollution,
 may have won the first skirmish in
 the battle against a hazardous waste
 site on 320 acres of prison property
 north of Raiford.
 Opposing lawyers, Tom Maurer,
 legal counsel for the Department of
 Environmental Regulation (DER),
 and Deborah Barton, a Jacksonville
 attorney representing U-CAP,
 presented oral arguments in
 Tallahassee Thursday, June 30, for
 and against DER's previous motion

this application may file his/her comments in writing with the Regional Director of the Federal Deposit Insurance Corporation at its Regional Office, Marquis One Building, 245 Peachtree Center Avenue, N.E., Suite 1200, Atlanta, Georgia 30303. If any person desires to protest the granting of this application, such person has a right to do so if the protest is filed with the Regional Director by August 6, 1988. The nonconfidential portions of the application are on file in the Regional Office as part of the public file maintained by the Corporation. This file is available for public inspection during regular business hours.

MERCHANTS & SOUTHERN BANK
3345 N. Main Street
Gainesville, Florida

**MERCHANTS & SOUTHERN BANK
OF CLAY COUNTY**
100 Commercial Circle
Keystone Heights, Florida
7/7 Stchg 8/4
Control 0756

**STATE OF FLORIDA
DEPT. OF ENVIRONMENTAL
REGULATION**

NOTICE OF INTENT

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit which will authorize E.I. DuPont de Nemours & Company, Incorporated an increase in production of the Highlands ilmenite dryer plant that is located on State Road 125 near Lawtey, Bradford County, Florida. The increased emissions of particulate matter, sulfur dioxide, and nitrogen oxide will not cause or contribute to a violation of any ambient air quality standard. A best available control technology determination was not required for this project. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative determination (hearing) in accordance with Section 120.57, Florida Statutes. The petition must conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32399-2400, within

fourteen (14) days of publication of this notice. Failure to file a petition within this time period constitutes a waiver of any right such person has to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the proposed agency action. Therefore, persons who may not wish to file a petition may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Rule 28-5.207, Florida Administrative Code, at least five (5) days before the final hearing and be filed with the hearing officer if one has been assigned at the Division of Administrative Hearings, Department of Administration, 2009 Apalachee Parkway, Tallahassee, Florida 32301. If no hearing officer has been assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes.

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:
Dept. of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Dept. of Environmental Regulation
Northeast District
3426 Bills Road
Jacksonville, Florida 32207

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.

Itchg 7/7
Control 0754

**IN THE GENERAL COURT OF JUSTICE
DISTRICT COURT DIVISION
FILE NO. 88-CVD-61
STATE OF NORTH CAROLINA
COUNTY OF HENDERSON**

**SANDRA PLYMILL,
Plaintiff
vs
LARRY PLYMILL,
Defendant.
COMPLAINT FOR ABSOLUTE DIVORCE
AND CHILD CUSTODY**

**NOTICE OF SERVICE OF
PROCESS BY PUBLICATION**

To: Larry Plymill, the above named defendant:

Take notice that a pleading seeking relief against you has been filed in the above entitled action. The nature of the relief being sought is as follows: Complaint for Absolute Divorce and Child Custody.

You are required to make defense to such pleading not later than 11th day of August, 1988, said date being 40 days from the first publication of this notice; and upon your failure to do so the party seeking service against you will apply to the Court for the relief sought.

This is the 17th day of June, 1988.
STEPHEN F. FRANKS
514 Fifth Ave. West
P. O. Box 845
Hendersonville, N.C.
(704) 697-6238
Attorney for Plaintiff
6/30 3tchg 7/14
Control 0748

**NOTICE OF INTENTION
TO REGISTER
FICTITIOUS NAME**

PURSUANT to Section 865.09, Florida Statutes, notice is hereby given that the undersigned, Albert J. Rother, Route 1, Box 870 E, Starke, Florida 32091, sole owner, doing business under the firm name of Ferns, Feathers and Flowers, Rt. 1, Box 870 E, Starke, Fla., 32091, intends to register said fictitious name

under the aforesaid statute.
Dated this 30th day of June, 1988, in
Bradford County, Fla.

6/30 4tpd 7/21
Control 0749

ZONING NOTICE

RALPH EDWIN STARLING AND HURST COMMUNICATION, INC., has made application for SPECIAL EXCEPTION, Essential Services, 100 ft. C.A. TV Antenna for cable TV reception and installation to the Bradford County Board of Adjustment on property that is classified OR, Open Rural and described below:

1.3 Acres (220'x245', out of Parcel 01309-0-00000, in Section 21, Township 5 S., Range 22 E., located 1.3 miles West of Lawtey off South side of C.R. 225 and West side of N.W. 23rd St.

The Bradford County Zoning Board will review the application and make a recommendation to the Bradford County Board of Adjustment for their public hearing to be held at 7:30 p.m., in the Commission meeting room of City Hall, 209 N. Thompson St., Starke, Florida, on Tuesday, July 26, 1988.

At this time, all persons will be heard concerning this application, as specified in the Bradford County Zoning Codes.

Zoning Director
B.C.B. of ADJ.
Itchg 7/7
Control 0764

Tennis Instruction

Starke or Keystone
Private Lessons
\$10 per hour OR
Learn with a Friend
For \$5 each.
Call Mark at
473-4380 or 964-6305



Madison Street Baptist Church

Henry L. McKinney, Jr., Pastor

Dear Friends of Madison Street Baptist Preschool:

As of August 1, 1988, the Madison Street Baptist Church will suspend operation of our pre-school. Our Director, Mrs. Eula Nichols, and staff have chosen to open a preschool of their own. This forces the suspension of operation of our weekday education program.



**FREE
EXPLORING
GOD'S WORD**

HOME BIBLE STUDY

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RECEIPT FOR CERTIFIED MAIL

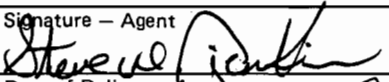
NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

PS Form 3800, June 1985

Sent to Mr. Don Luebke	
Street and No. E.I. DuPont de Nemours P.O. Box 753	
P.O., State and ZIP Code Starke, FL 32091	
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: 6-29-88 Permit: AC 04-146205	

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

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

3. Article Addressed to: Mr. Don Luebke, Plant Manager E.I. DuPont de Nemours & Co., Inc. P. O. Box 753 Starke, FL 32091	4. Article Number P 778 940 861 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 Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature — Addressee X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature — Agent X 	
7. Date of Delivery 6-30-88	

UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.

- Complete items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested:" adjacent to number.

RETURN

TO



Print Sender's name, address, and ZIP Code in the space below.

Dept. of Environmental Regulation

Bureau of Air Quality Management

2600 Blair Stone Road

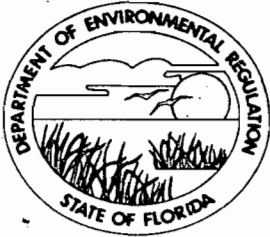
Tallahassee, FL 32399-2400

Attn: Patty Adams

RECEIVED
JUL 01 1988
DER-BAQM



PENALTY FOR PRIVATE USE, \$300



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

June 28, 1988

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

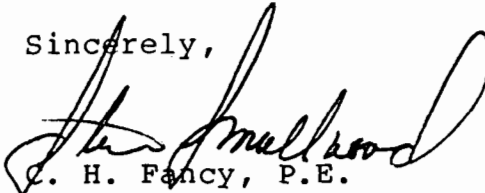
Mr. Don Luebke, Plant Manager
E.I. DuPont de Nemours & Company, Inc.
Post Office Box 753
Starke, Florida 32091

Dear Mr. Luebke:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permit for E.I. DuPont de Nemours & Company, Incorporated to increase the production of the ilmenite dryer located at the Highland plant.

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,

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

CHF/wh

Attachments

cc: Bill Stewart, NE District
John Koogler, P.E.
M.E. Brimhall, DuPont

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of
Application for Permit by:

DuPont de Nemours & Co., Inc.
Post Office Box 753
Starke, Florida 32091

DER File No. AC 04-146205

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, E.I. DuPont de Nemours & Company, Inc., applied on February 26, 1988, to the Department of Environmental Regulation for a permit which would authorize higher production at the Highlands ilmenite plant located on State Road 125 near Lawtey, Bradford 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.

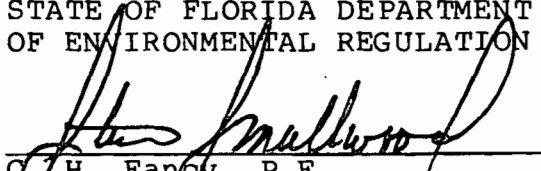
Pursuant to Section 403.815, F.S. and DER Rule 17-103.150, FAC, you (the applicant) are required to publish at your own expense the enclosed Notice of Proposed Agency Action on permit application. The notice must be published one time only in a section of a major local newspaper of general circulation 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 permits.

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, F.S. A person whose substantial interests are affected by the

Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. Petitions must comply with the requirement of Florida Administrative Code Rules 17-103.155 and 28-5.201 (copy enclosed) and be filed with (received by) the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant must be filed within fourteen (14) days of receipt of this intent. Petitions filed by other persons must be filed within fourteen (14) days of publication of the public notice or within fourteen (14) days of receipt of this intent, whichever first occurs. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes, concerning the subject permit application. Petitions which are not filed in accordance with the above provisions will be dismissed.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

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

Copies furnished to:

Bill Stewart, NE District
John Koogler, P.E.
M. E. Brimhall, DuPont

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.

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 6-29-88.

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

Matthew Wise 6-29-88
Clerk Date

State of Florida
Department of Environmental Regulation
Notice of Intent

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit which will authorize E.I. DuPont de Nemours & Company, Incorporated an increase in production of the Highlands ilmenite dryer plant that is located on State Road 125 near Lawtey, Bradford County, Florida. The increased emissions of particulate matter, sulfur dioxide, and nitrogen oxide will not cause or contribute to a violation of any ambient air quality standard. A best available control technology determination was not required for this project. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative determination (hearing) in accordance with Section 120.57, Florida Statutes. The petition must conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Failure to file a petition within this time period constitutes a waiver of any right such person has to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the proposed agency action. Therefore, persons who may not wish to file a petition may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Rule 28-5.207, Florida Administrative Code, at least five (5) days before the final hearing and be filed with the hearing officer if one has been assigned at the Division of Administrative Hearings, Department of Administration, 2009 Apalachee Parkway, Tallahassee, Florida 32301. If no hearing officer has been assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes.

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

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

Dept. of Environmental Regulation
Northeast District
3426 Bills Road
Jacksonville, Florida 32207

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

E. I. DuPont de Nemours & Company, Inc.
Lawtey, Bradford County, Florida

Highland Ilmenite Dryer
File No. AC 04-146205

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

June 28, 1988

I. General Information

A. Applicant

E. I. DuPont de Nemours and Company, Inc.
Post Office 753
Starke, Florida 32091

B. Request

An application was submitted to the Department on February 26, 1988, which requested permission to increase the production of the ilmenite dryer at the applicant's Highlands metallic minerals mining and processing plant (SIC 1099). The application was considered complete on receipt of DuPont's May 11, 1988, letter.

C. Project

The applicant operates an ilmenite dryer at his Highlands plant that is located near Lawtey, Bradford County, Florida. The UTM coordinates of this site are Zone 17, 398.7 km E and 3325.0 km N. The facility contains a No. 6 fuel oil fired rotary dryer, dry cyclone, along with a feed system consisting of a hopper, disk feeder bin, and several belt conveyors. The dried mineral sands are discharged from the dryer to a belt conveyor and then sent to other plants for processing to titanium dioxide.

The applicant is requesting permission to increase production from 40 TPH to 76.16 TPH while burning up to 150 GPH (22 MMBtu/hr) of No. 6 fuel oil which contains a maximum of 2.8 percent sulfur. No physical modifications are needed to operate the plant at the higher production rate. The plant was originally permitted to operate with a production of 56 TPH.

D. Emissions

Moisture in the scrubbed wet mill concentrate feed to the dryer should minimize unconfined emissions of particulate matter from this material. A dry cyclone controls particulate matter emissions from ilmenite dryer. Tests have measured particulate matter (PM) emissions near the proposed production rate (68.7 TPH) at 17.04 lbs/hr. The applicant is requesting a PM emission standard of 33.2 lbs/hr as allowed by the process weight table in the Department's air pollution control regulation. Sulfur dioxide emissions are controlled by limiting the sulfur content of the fuel to 2.8 percent.

Fugitive emissions are controlled by wetting the fine material from the cyclone and returning it to the wet settling pond.

BEST AVAILABLE COPY

CH-3564 REV. 5-83

AFTER FIVE DAYS RETURN TO

DU PONT

TR 1-2

E. I. Du Pont de Nemours & Company
INCORPORATED

No 295-34969

8-26
430

STARKE, FLA. FEB. 24, 1988
(DATE)

Pay ****1000**** DOLLARS NO CENTS

To the order of ****FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION****
2600 BLAIRSTONE ROAD
TALLAHASSEE, FL 32301

TO MELLON BANK N.A.
PITTSBURGH, PENNSYLVANIA

NOT GOOD FOR MORE THAN \$1500.00
E. I. DU PONT DE NEMOURS & COMPANY -
CASHIER ACCOUNT NO. **295**

D. C. Williams

BETTER THINGS FOR BETTER LIVING ... FROM DU PONT

DU PONT

WITH STAMP COLLECTING

100100

E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED
CHEMICALS AND PIGMENTS DEPT., P.O. DRAWER A, LAWTEY, FLA. 32056

No 295-34969

VENDOR'S NO. OR DATE	OUR NO.	AMOUNT	DISCOUNT	FREIGHT	NET AMOUNT
2/25/88 - FEE FOR HIGHLAND DRYER PERMIT.					1000.00

ALWAYS REFER TO OUR CHECK NUMBER IN YOUR CORRESPONDENCE

AFTER FIVE DAYS RETURN TO



ESTABLISHED 1802

E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED
FLORIDA PLANT
P.O. BOX 753
STARKE, FLORIDA 32091

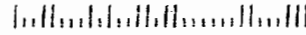
2251



Mr. Bill Thomas
Florida Department of Environm. Regulation
2600 Blair Stone Road
Tallahassee, FL 32301

001031

RECEIVED
DER - MAIL ROOM
1988 MAR - 1 AM 10:43



Mr. Bill Thomas
Re: Permit A004-84815

February 23, 1988
Page 2

conditions of the dryer federally enforceable in the future, the request is being made in the form of an Air Construction Permit Application (copies attached). All information necessary for the review of the amendment should be in the application.

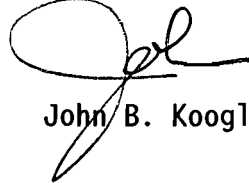
In reviewing the application, it will be noted that the particulate matter emission rate and sulfur dioxide emission rate, under maximum permitted conditions, will exceed 100 tons per year. As a result, and for Department permitting purposes, the dryer is considered a major emitting facility. Under Department policy, permit applications for major emitting facilities are usually reviewed by the Department's Bureau of Air Quality Management, Central Air Permitting Section in Tallahassee. Consistent with this policy, these applications are being forwarded to your attention.

During our recent discussions, you stated that because of your current work load (the work load of the Central Air Permitting Section), you would have no objection to the enclosed permit applications being reviewed by the Department's Northeast District Office in Jacksonville. I have discussed this matter with the Northeast District Office and was told that they would review the application if you will forward the application to that office and if you will provide general guidance on permit review policy. I will leave the matter of who is to review the application to your discretion.

I would like to state that DuPont would appreciate receiving an amended application as the earliest possible time, as production requirements could be satisfied with the dryer operating at a higher throughput rate. your consideration of this request is very much appreciated.

Very truly yours,

KOOGLER & ASSOCIATES



John B. Koogler, Ph.D., P.E.

JBK:mab

cc: Mr. Bill Stewart, FDER, Northeast District
Mr. Johnny Cole, FDER, Northeast District
Mr. Mark Brimhall, DuPont

PM
Feb. 25, 1988
Stouck, FL

file copy



KOOGLER & ASSOCIATES, *Environmental Services*

4014 N.W. 13th Street • Gainesville, Florida 32609 • 904/377-5822

RECEIVED

KA 148-88-01

FEB 26 1988

February 23, 1988

DER - BAQM

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

Subject: Bradford County-AP
E.I. DuPont de Nemours & Co., Inc.
Highlands Plant - Ilmenite Dryer
Amendment to Permit A004-84815

Dear Bill:

As we have discussed during the past week, E.I. DuPont de Nemours & Co., Inc. (DuPont) operates a metallic minerals mining and processing plant in Bradford County, Florida. The plant is referred to as DuPont's Highlands Operation.

At the Highlands plant, DuPont operates an ilmenite dryer, presently permitted under Air Operating Permit A004-84815. This permit was issued in May, 1984 and expires in April, 1989. Originally, the plant was permitted on May 14, 1974, under Air Operating Permit A004-2217. This was the initial permit issued to a facility that had been operating for several years at DuPont's Mining Operations and was part of the Department's program to have under permit all potential air pollution sources in the state of Florida. An air construction permit was never issued for the dryer as the dryer was put into operation prior the initiation of an air permitting program by the Department (or by agencies preceding the Department). As a result, none of the operating conditions of the ilmenite dryer are federally recognizable or federally enforceable.

The dryer was originally permitted for a production rate of 118,000 pounds per hour. DuPont is presently requesting that the permit conditions be amended to allow a dryer throughput rate of 152,320 pounds per hour (68 gross tons per hour). Since none of the operating conditions of the dryer are federally enforceable and since no physical modifications are necessary for the dryer to operate at the requested throughput rate, the requested change in permit conditions is considered an amendment; not a modification. To formalize the request for this amendment and to make the permitted

8 Rev. 5-78



ESTABLISHED 1802

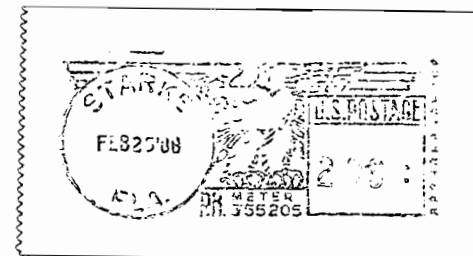
E. I. du Pont de Nemours & Company

Incorporated

WILMINGTON, DEL. 19898

P O BOX 753

STARKE FL 32091



FIRST CLASS MAIL

Mr. Bill Thomas
Florida Department of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, FL 32301

RECEIVED

FEB 26 1988

DER-BAQM

A summary of the proposed emissions is shown below:

Pollutant	Emissions (lbs/hr)	Emissions (TPY)
PM	33.2	145.6
SO ₂	67.2	294.3
NO _x	8.3	36.1

At 56 TPH production (original production rate), the allowable PM emissions was 33.0 lbs/hr (144.4 TPY). Thus, the project will increase allowable PM emissions by 1.2 TPY. The emissions of SO₂ and NO_x are estimated to increase by 76.9 and 9.4 TPY, respectively.

II. Rule Applicability

A. State Regulations

The proposed project, increasing the production at a metallic mineral processing plant (SIC 1099), is subject to preconstruction review under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code.

The facility is in an area designated attainment for all criteria air pollutants (17-2.420).

The plant is a major source of particulate matter, sulfur dioxide, and nitrogen oxides because emissions of each of these pollutants exceed 100 TPY. The higher production rate could cause a significant net emissions increase of SO₂.

This source has never had a federally enforceable permit. Therefore, the increased production proposed for this plant is not subject to the Prevention of Significant Deterioration (PSD) Regulations (17-2.500) because it is not a modification by definition (17-2.100(118)(b)).

Allowable emissions from this source shall be based on 17-2.610, General Particulate Emission Limiting Standards, 17-2.610(3), Unconfined Emissions of Particulate Matter, and the data, including the requested limits, submitted in the application.

B. Federal Regulations

The project is not subject to review under PSD regulations because the proposed increases in production and emissions are not a modification by definition. The proposed changes are not prohibited under any federally enforceable permit condition that

was established after January 8, 1975, (40 CFR 52.21(b), Definitions).

III. Technical Evaluation

The plant is using the cyclone that existed when it was originally issued a permit to operate (May 14, 1974) to control the particulate matter emissions. Tests show the dryer can comply with the particulate matter emission standards specified in the process weight table of the Department's regulations. This source will be required to comply with the process weight table and the emission standard they proposed. If the dryer is modified, the more restrictive new source performance standards for metallic mineral processing plants, 40 CFR 60, Subpart LL, may be applied to this source.

Sulfur content of the No. 6 fuel oil will be limited to 2.8% as requested by the applicant. Should a future plant modification cause a significant net emissions increase of SO₂, the dryer may be required to burn lower sulfur fuel.

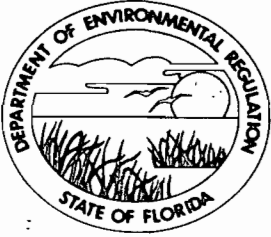
The factor used to estimate NO_x emissions, 55 lbs/1,000 gallons of fuel, is for boilers. The Department has reservations on using this factor for dryers and believes actual NO_x emissions could be higher. Even with a significantly higher NO_x emission rate, we do not anticipate any deterioration of the air quality at any distance from the plant caused by this pollutant. The Department should be furnished with actual NO_x emissions data with any future application to modify this source.

IV. Air Quality Analysis

The regulations do not require an air quality analysis for the changes requested by the applicant. However, the Department has calculated the impact of the emissions from this source. Based on these analyses, the Department has reasonable assurance that the ambient air quality standards will not be violated by operating this source at the higher production rate.

V. Conclusion

Based on the data submitted by the applicant, the Department has concluded that the affected source can be operated at the higher production rate and comply with the applicable air pollution control regulations. The General and Specific Conditions listed in the proposed permit that authorizes the higher production rate (attached) will require the source to operate in compliance with the air pollution control regulations.



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:

E.I. DuPont de Nemours &
Company, Inc.
Post Office Box 753
Starke, Florida 32091

Permit Number: AC 04-146205

Expiration Date: December 31, 1988

County: Bradford

Latitude/Longitude: 30° 03' 12"N
82° 03' 04"W

Project: Highland Ilmenite Dryer

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (FAC) Rules 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:

Authorization to increase the production of the Highlands ilmenite plant from 40 TPH to 76.16 TPH. The plant consists of a radial stacker belt conveyor, stock pile of scrubbed wet mill concentrate ore, dryer feed hopper, bin loading belt conveyor, disk feeder bin, dryer feed belt conveyor, rotary dryer with oil burner, dust cyclone, oversize belt conveyor, and oversize trash pile. The plant is located 1.1 miles east of U.S. Highway 301 on State Road 125 near Lawtey, Bradford County, Florida. The UTM coordinates of this site are Zone 17, 398.7 km E and 3325.0 km N.

Attachments:

1. Application received February 26, 1988.
2. DER letter dated March 15, 1988.
3. DuPont letter dated May 11, 1988.

PERMITTEE:
E.I. DuPont de Nemours &
Company, Inc.

Permit Number: AC 04-146205
Expiration Date: December 31, 1988

GENERAL CONDITIONS:

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

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

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

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

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

PERMITTEE:
E.I. DuPont de Nemours &
Company, Inc.

Permit Number: AC 04-146205
Expiration Date: December 31, 1988

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
E.I. DuPont de Nemours &
Company, Inc.

Permit Number: AC 04-146205
Expiration Date: December 31, 1988

GENERAL CONDITIONS:

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

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

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

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

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

13. This permit also constitutes:

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

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

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

PERMITTEE:
E.I. DuPont de Nemours &
Company, Inc.

Permit Number: AC 04-146205
Expiration Date: December 31, 1988

GENERAL CONDITIONS:

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

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

SPECIFIC CONDITIONS:

1. Dryer production shall not exceed 76.16 TPH. The permittee shall have instruments or other means available to determine the production of this dryer.

2. Heat input by No. 6 fuel oil to the dryer shall not exceed 22.0 MMBtu/hr. Approximately 150 GPH is equivalent to this heat input. Sulfur content of the fuel oil shall not exceed 2.8%. A log of the fuel oil consumption of the dryer and invoices of the fuel oil purchases that give its sulfur content shall be maintained to show compliance with this condition.

PERMITTEE:
E.I. DuPont de Nemours &
Company, Inc.

Permit Number: AC 04-146205
Expiration Date: December 31, 1988

SPECIFIC CONDITIONS:

3. Particulate matter emissions from the dryer, as determined by Method 5 which is described in 40 CFR 60, Appendix A, shall not exceed the amount allowed by the process weight table (Rule 17-2.610(1)(b), FAC) and 33.2 lbs/hr.

4. Visible emissions from the dryer, as determined by Method 9 which is described in 40 CFR 60, Appendix A, shall not exceed 20% opacity, 6 minute average.

5. Unconfined emissions shall be minimized by wetting the fines discharged from the cyclone and any other part of the plant that is dusty. Alternate precautions may be used on conveyors and other equipment.

6. The plant may operate continuously, 8760 hours per year.

7. All compliance tests shall be conducted while the dryer is operating within 10% of its permitted capacity. Except during compliance tests, the dryer shall not be operated above its permitted rate. The particulate matter emissions and visible emissions shall be determined concurrently. Under circumstances when this is not feasible, the permittee shall obtain prior approval from the Northeast District to conduct the tests at separate times. In such circumstances, the tests shall be conducted as close to each other as is feasible. The Northeast District shall be notified in writing at least 15 days prior to any compliance test. A tests report that provides the information required by Rule 17-2.700(7), FAC, shall be submitted to the District within 45 days of the date of the testing.

8. The permittee shall demonstrate compliance with the conditions of this construction permit and submit a complete application for permit to operate to the Department's Northeast District at least 90 days prior to the expiration date of this construction permit. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date.

9. Any permit to operate issued for this source shall require an annual operation report which includes, as a minimum, a recent particulate matter and visible emission tests report.

PERMITTEE:
E.I. DuPont de Nemours &
Company, Inc.

Permit Number: AC 04-146205
Expiration Date: December 31, 1988

Issued this _____ day of _____,
1988

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

Dale Twachtman, Secretary



REG. U.S. PAT. & TM. OFF.

ESTABLISHED 1802

E. I. DU PONT DE NEMOURS & COMPANY

INCORPORATED

FLORIDA PLANT

P.O. BOX 753

STARKE, FLORIDA 32091

CHEMICALS AND PIGMENTS DEPARTMENT

 PM
 12 May 1988
 Starke, FL

file copy

May 11, 1988

RECEIVED

MAY 13 1988

DER-BAQM

Mr. C. H. Fancy, P.E.
 Bureau of Air Quality Management
 Florida Department of Environmental Reg.
 2600 Blairstone Road
 Tallahassee, Florida 32399

Reference: File No. 04-146205, Request to Increase Production of
 the Highland Ilmenite Dryer

Dear Mr. Fancy:

The following are specific responses to your letter of March 15, 1988. We regret the delay in our response.

1. Sent to the Department under separate cover and addressed to Willard Hanks is the letter of authorization requested. A copy is also attached. (Attachment 1)
2. Since August 24, 1982, no capital investments associated with the permitted air source have been expended that would trigger the NSPS for metallic mineral processing plants. The source was originally permitted as a point source prior to the development of New Source Performance Standards. Routine maintenance has been done to maintain the operability of the plant.
3. See the attached flow diagram and associated process equipment. (Attachment 2)
4. Products separated in the Highland dry mill are Ilmenite and Staurolite. Ilmenite is a TiO_2 mineral shipped to Du Pont sites in Tennessee, Delaware and Mississippi. Staurolite is an Alumina-silicate and sold in the domestic market for various applications.
5. The facilities processing Ilmenite to Titanium Dioxide are the New Johnsonville Plant in Tennessee, the Delisle Plant in Mississippi and the Edgemoor Plant in Delaware.
6. The request for a permitted allowable rate of 33.2 lb/hr is based on the fact that this is now the permitted rate opposite the process rate table. We would be penalized

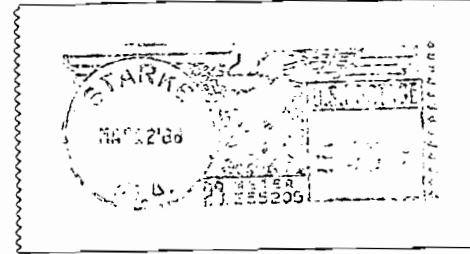
G-18 Rev. 5-78



ESTABLISHED 1802

E. I. du Pont de Nemours & Company
Incorporated
WILMINGTON, DEL. 19898

CHEMICALS & PIGMENTS DEPT.
P. O. BOX 753
STARKE, FL 32091



FIRST CLASS MAIL

MR. C. H. FANCY, P.E.
BUREAU OF AIR QUALITY MANAGEMENT
FLORIDA DEPT. OF ENVIRONM. REG.
2600 BLAIRSTONE ROAD
TALLAHASSEE, FL 32399

Mr. C. H. Fancy, P.E.
May 11, 1988
Page 2

if in the future, our operating efficiency decreased below the current level, whereas now we are not penalized until we exceed the process rate table allowable rate.

7. The Northeast District Office authorized the compliance test at the higher than permitted rate of 40 tph.

Should you have further questions, or if I can be of assistance in this matter, please call me at (904) 964-6980.

Sincerely,



M. E. Brimhall
SH&E Coordinator

Attachments

Copied Willard Hanks
CHF/BT
Bill Stewart, N.E. Dist. } 5.19.88


ATTACHMENT 1

April 5, 1988

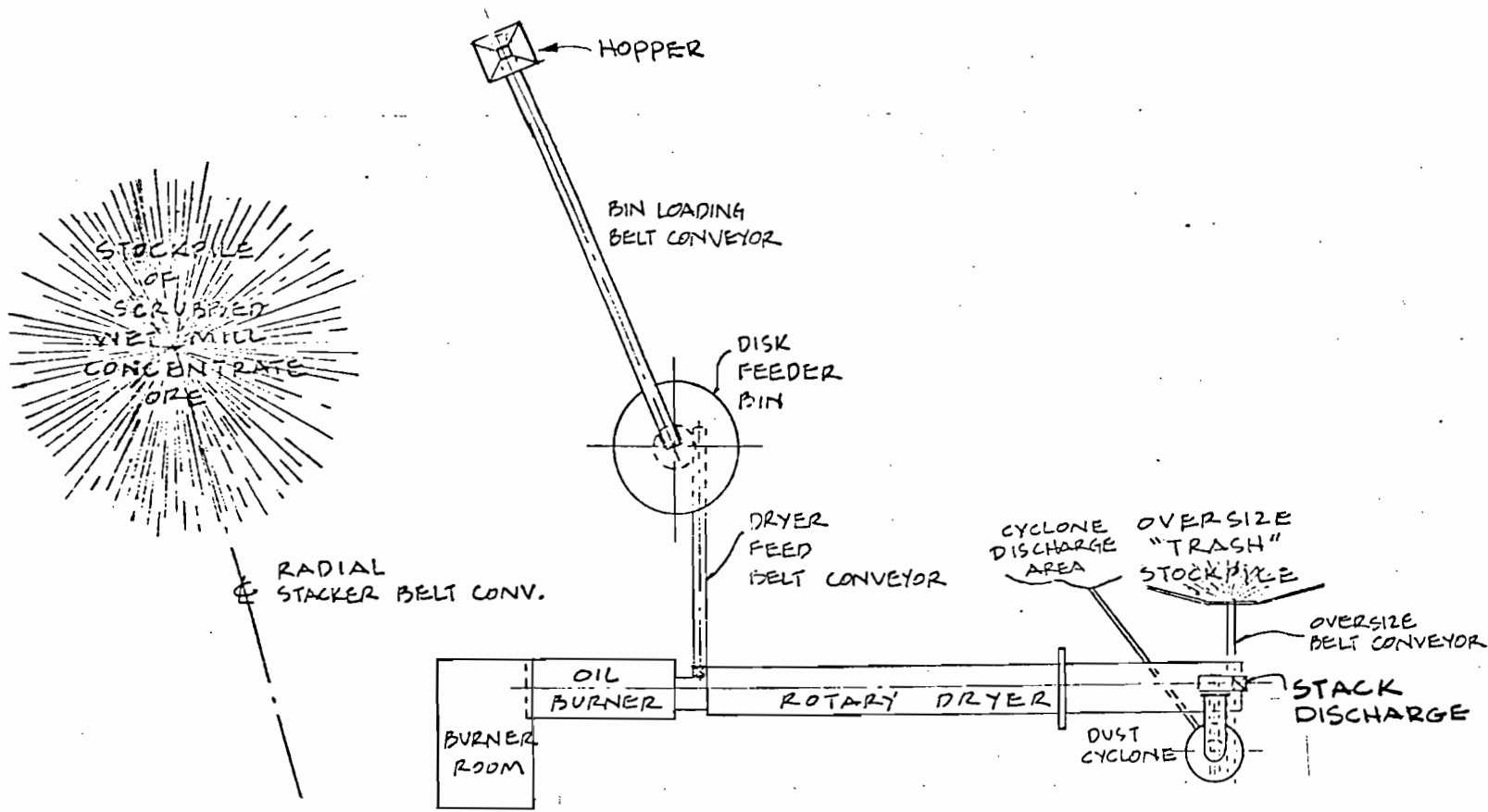
STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
2600 BLAIRSTONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

LETTER OF AUTHORIZATION

This letter is to advise that D. V. Luebke, Plant Manager, and M. E. Brimhall, Safety Health and Environmental Coordinator, are the authorized representatives of the Florida Plant of E. I. du Pont de Nemours & Company with respect to pollution control facilities and other environmental matters.


P. Z. Larson
Production Manager

ATTACHMENT 2



P.R. TRACKS

HIGHLAND SITE
ILMENITE DRY MILL
DRYING CIRCUIT
R5R6B88

Mr. C. H. Fancy, P.E.
May 11, 1988
Page 4

Attachment 2

The permitted source is a rotary dryer. Feed to the dryer comes from the stockpile of scrubbed wet mill concentrate via the hopper, bin loading belt conveyor, disk feeder bin and the dryer feed belt conveyor. The dried heavy mineral sands are discharged onto a conveyor and taken into the dry processing facility. The stack discharge is controlled with a dry cyclone. The cyclone undersize is then wet to control fugitive emissions and returned to a wet settling pond. The heavy mineral sand is not milled for size reduction in any of our processes, and is only physically separated from the quartz sands by gravity prior to introduction to the rotary dryer.

P 274 010 433

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

* U.S.G.P.O. 1985-480-794
 PS Form 3800, June 1985

Mr. Don Luebke, Plt. Mgr. E.I. DuPont de Nemours & Co. Street and No. P.O. Box 753	
P.O. State and ZIP Code Starke, FL 32091	
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: 03/15/88 Permit: AC 04-146205	

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. <input checked="" type="checkbox"/> Show to whom delivered, date, and addressee's address.		2. <input type="checkbox"/> Restricted Delivery.	
3. Article Addressed to: Mr. Don Luebke, Plant Manager E.I. Dupont de Nemours and Company, Inc. P.O. Box 753 Starke, FL 32091		4. Article Number P 274 010 433 Type of Service: <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input type="checkbox"/> COD	
5. Signature - Addressee X		Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> .	
6. Signature - Agent X <i>Steve W. Jenkins</i>		8. Addressee's Address (ONLY if requested and fee paid)	
7. Date of Delivery 3-16-88			

UNITED STATES POSTAL SERVICE
OFFICIAL BUSINESS

SENDER INSTRUCTIONS
Print your name, address, and ZIP Code
in the space below.

- Complete items 1, 2, 3, and 4 on
the reverse.
- Attach to front of article if space
permits, otherwise affix to back of
article.
- Endorse article "Return Receipt
Requested" adjacent to number.



PENALTY FOR PRIVATE
USE, \$300

RETURN TO SENDER

Print Sender's name, address, and ZIP Code in the space below.

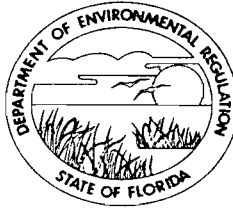
Department of Environmental Regulation
Bureau of Air Quality Management

MAR 17 1988
2600 Blair Stone Road
Tallahassee, FL 32399-2400

ATTN: M. JAMES
DER - BAQM

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB MARTINEZ
GOVERNOR

DALE TWACHTMANN
SECRETARY

March 15, 1988

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Don Luebke, Plant Manager
E. I. DuPont de Nemours & Company, Inc.
P. O. Box 753
Starke, Florida 32091

Dear Mr. Luebke:

Re: File No. 04-146205, Request to Increase Production of the
Highlands Ilmenite Dryer.

The Department has made a preliminary review of your application for permit to increase production of the Highlands ilmenite dryer. Before this application can be processed, we need the following information:


1. Letter of Authorization for you to represent the Company.
2. Since August 24, 1982 (effective date of NSPS for metallic mineral processing plants) has any capital investment in equipment (dryer or other process units at this plant) been made to increase the production of this facility or has any process equipment been replaced?
3. Please provide a process flow diagram and describe all process equipment at this plant. Include the air pollution control system and any reasonable precautions used to control fugitive dust for each operation. List which permit authorizes its use. Include any wet mill, electrostatic separator, crusher, screen, material handling equipment, or storage bins, etc. at this facility.
4. What is the product from the Highland facility and where is it shipped to?
5. At what facility is the ore processed to titanium dioxide?
6. As actual particulate matter emissions are reported to be 17.04 lbs/hr near the proposed production rate, why is the company requesting an allowable rate of 33.2 lb/hr (195% of actual)?

ur. Don Luebke
Page 2
March 15, 1988

7. What Department office authorized the compliance test at a rate higher (68.7 TPH) than the permitted rate (40 TPH)?

We will resume processing the application after you submit the requested information. If you have any question on this matter, please call Willard Hanks at (904) 488-1344 or write to me at the Department's office in Tallahassee.

Sincerely,



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

CHF/WH/ss

cc: W. Stewart, NE District
J. Koogler, PE

Feb. 23, 1988

St. Louis, MO



KOOGLER & ASSOCIATES, *Environmental Services*

4014 N.W. 13th Street • Gainesville, Florida 32609 • 904/377-5822

RECEIVED

KA 148-88-01

FEB 26 1988

February 23, 1988

DER-BAQM

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

Subject: Bradford County-AP
E.I. DuPont de Nemours & Co., Inc.
Highlands Plant - Ilmenite Dryer
Amendment to Permit A004-84815

Dear Bill:

As we have discussed during the past week, E.I. DuPont de Nemours & Co., Inc. (DuPont) operates a metallic minerals mining and processing plant in Bradford County, Florida. The plant is referred to as DuPont's Highlands Operation.

At the Highlands plant, DuPont operates an ilmenite dryer, presently permitted under Air Operating Permit A004-84815. This permit was issued in May, 1984 and expires in April, 1989. Originally, the plant was permitted on May 14, 1974, under Air Operating Permit A004-2217. This was the initial permit issued to a facility that had been operating for several years at DuPont's Mining Operations and was part of the Department's program to have under permit all potential air pollution sources in the state of Florida. An air construction permit was never issued for the dryer as the dryer was put into operation prior the initiation of an air permitting program by the Department (or by agencies preceding the Department). As a result, none of the operating conditions of the ilmenite dryer are federally recognizable or federally enforceable.

The dryer was originally permitted for a production rate of 118,000 pounds per hour. DuPont is presently requesting that the permit conditions be amended to allow a dryer throughput rate of 152,320 pounds per hour (68 gross tons per hour). Since none of the operating conditions of the dryer are federally enforceable and since no physical modifications are necessary for the dryer to operate at the requested throughput rate, the requested change in permit conditions is considered an amendment; not a modification. To formalize the request for this amendment and to make the permitted

Mr. Bill Thomas
Re: Permit A004-84815

February 23, 1988
Page 2

conditions of the dryer federally enforceable in the future, the request is being made in the form of an Air Construction Permit Application (copies attached). All information necessary for the review of the amendment should be in the application.

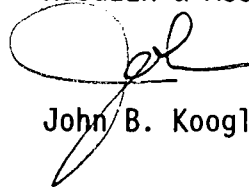
In reviewing the application, it will be noted that the particulate matter emission rate and sulfur dioxide emission rate, under maximum permitted conditions, will exceed 100 tons per year. As a result, and for Department permitting purposes, the dryer is considered a major emitting facility. Under Department policy, permit applications for major emitting facilities are usually reviewed by the Department's Bureau of Air Quality Management, Central Air Permitting Section in Tallahassee. Consistent with this policy, these applications are being forwarded to your attention.

During our recent discussions, you stated that because of your current work load (the work load of the Central Air Permitting Section), you would have no objection to the enclosed permit applications being reviewed by the Department's Northeast District Office in Jacksonville. I have discussed this matter with the Northeast District Office and was told that they would review the application if you will forward the application to that office and if you will provide general guidance on permit review policy. I will leave the matter of who is to review the application to your discretion.

I would like to state that DuPont would appreciate receiving an amended application as the earliest possible time, as production requirements could be satisfied with the dryer operating at a higher throughput rate. your consideration of this request is very much appreciated.

Very truly yours,

KOOGLER & ASSOCIATES



John B. Koogler, Ph.D., P.E.

JBK:mab

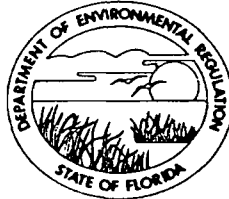
cc: Mr. Bill Stewart, FDER, Northeast District
Mr. Johnny Cole, FDER, Northeast District
Mr. Mark Brimhall, DuPont

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

RECEIVED

FEB 26 1988



DER-BAQM

APPLICATION TO ~~REPAIR~~/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Rotary Dryer [] New¹ [X] Existing¹

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

COMPANY NAME: E.I. DuPont de Nemours & Co., Inc. COUNTY: Bradford

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) Highlands Ilmenite Dryer

SOURCE LOCATION: Street SR 125, 1.1 miles east of US 301 City Lawtey

UTM: East (17) 398.7 km North 3325.0 km

Latitude 82 ° 03 ' 04 "N Longitude 30 ° 03 ' 12 "W

APPLICANT NAME AND TITLE: Don Luebke, Plant Manager

APPLICANT ADDRESS: P.O. Box 753, Starke, Florida 32091

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

E.I. DuPont de Nemours & Company, Inc.

I am the undersigned owner or authorized representative* of E.I. DuPont de Nemours & Company, Inc.

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

*Attach letter of authorization

Signed: D. L. Luebke

Don Luebke, Plant Manager
Name and Title (Please Type)

Date: 2/25/88 Telephone No. 904/964-6980

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

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

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

Signed 

John B. Koogler, Ph.D., P.E.
Name (Please Type)

Koogler & Associates, Environmental Services
Company Name (Please Type)

4014 NW 13th Street, Gainesville, Florida 32609
Mailing Address (Please Type)

Florida Registration No. 12925 Date: 2/23/88 Telephone No. 904/377-5822

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.

Production rate increase for No. 6 fuel oil fired rotary ilmenite dryer with no physical modification. Dryer was originally permitted under A004-2217 at a production rate of 118,000 lb/hr (presently permitted at 80,000 lb/hr by A004-84815). Requested production rate is 152,320 lb/hr. (To page 2a of 12)

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

Start of Construction N/A Completion of Construction N/A

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

N/A - Existing control equipment, consisting of a dry cyclonic collector, is adequate to control particulate matter emissions at the proposed production rate.

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

Original Permit A004-2217; issued 5/14/74, expired 5/15/79
A004-18402; issued 4/11/79, expired 4/11/84
A004-84815; issued 5/4/84, expiring 4/15/89

Section IIA, continued

The proposed particulate matter emission rate will be 33.2 lb/hr; or the particulate matter emission rate allowed (17-2.610(1), FAC) at the originally permitted production rate of 118,000 lb/hr. The heat input to the dryer will increase from the maximum previously permitted rate of 16.25 million BTU/hr to 22.0 million BTU/hr.

The proposed production rate increase, and the higher associated fuel use rate, will not constitute a modification as a modification does not include "an increase in the hours of operation or in the production rate of a source, unless such a change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975" (Rule 17-2.100(118)(b), FAC). The affected dryer has not been permitted under any federally enforceable permit condition (a construction permit condition) subsequent to (or prior to) January 6, 1975.

E. Requested permitted equipment operating time: hrs/day 24; days/wk 7; wks/yr 52; if power plant, hrs/yr _____; if seasonal, describe: _____

F. If this is a new source or major modification, answer the following questions. (Yes or No) (Amendment to permit conditions for an existing dryer; not a modification.)

- 1. Is this source in a non-attainment area for a particular pollutant? N/A
 - 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? N/A
If yes, see Section VI.
- 3. Does the State "Prevention of Significant Deterioration" (PSD) requirement apply to this source? If yes, see Sections VI and VII. N/A
- 4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source? N/A
- 5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? N/A

- 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		
Ilmenite ore	Part. Matter	2-3	152,320	(1)

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

1. Total Process Input Rate (lbs/hr): 152,320 (dry wt.)

2. Product Weight (lbs/hr): 152,320 (dry wt.)

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

Name of Contaminant	Emission ¹		Allowed ² Emission Rate per Rule 17-2	Allowable ³ Emission lbs/hr	Potential ⁴ Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/hr	T/yr	
Part. Matter	33.2	145.6	17-2.610(1)	33.2	1500	6572	(2)
SO2	67.2	294.3	-	67.2	67.2	294.3	(2)
NOx	8.3	36.1	-	8.3	8.3	36.1	(2)

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)

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Dry cyclone	Part. Matter	97.8	<10 um	Estimate (See Sect. V.5)

E. Fuels

Type (Bs Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
No. 6 oil	125 gal/hr	150 gal/hr	22.0

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

Fuel Analysis:

Percent Sulfur: 2.8 max Percent Ash: 0.1
 Density: 8.0 lbs/gal Typical Percent Nitrogen: 0.2
 Heat Capacity: 18,300 BTU/lb 146,400 BTU/gal
 Other Fuel Contaminants (which may cause air pollution): None

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

Annual Average N/A Maximum _____

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

Particulate matter collected in cyclone is combined with the dried product.

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

Stack Height: 35 ft. Stack Diameter: 26" X 44" ft.
 Gas Flow Rate: 17,000 ACFM 10,295 DSCFM Gas Exit Temperature: 255 °F.
 Water Vapor Content: 18 % Velocity: 35.7 FPS

SECTION IV: INCINERATOR INFORMATION
 (NOT APPLICABLE)

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

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

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

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

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

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

Brief description of operating characteristics of control devices: _____

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

(See Page 7a of 12)

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.

SECTION V

Supplemental Requirements

1. Production and Input rates

Maximum dryer throughput rate will be 152,320 pounds per hour (68 gross tons/hr).

Dryer input rate will equal dryer output rate except for negligible losses.

2/3. Controlled and Uncontrolled Emission

Particulate Matter

Uncontrolled (AP-42, Sect 8.23; 19.7 lb/ton for all minerals but titanium/zirconium sands. This factor was used since no other appropriate emission factor is available for uncontrolled emissions.)

$$\begin{aligned} \text{P.M.} &= (152,320/2000) \text{ ton/hr} \times 19.7 \text{ lb/ton} \\ &= 1500 \text{ lb/hr} \\ &\quad \times 8760/2000 \\ &= 6572 \text{ tpy} \end{aligned}$$

Controlled (Allowable per Rule 17-2.610(1), FAC at a production rate of 118,000 lb/hr)

$$\begin{aligned} \text{P.M.} &= 118,000/2000 \\ &= 17.31 [(118,000/2000)\text{exp } 0.16] \\ &= 33.2 \text{ lb/hr} \\ &\quad \times 8760/2000 \\ &= 145.6 \text{ tpy} \end{aligned}$$

Sulfur Dioxide

Controlled and Uncontrolled (150 gal/hr No. 6 fuel oil @ 2.8% sulfur)

$$\begin{aligned} \text{SO}_2 &= 150 \text{ gal/hr} \times 8 \text{ lb/gal} \times (0.028 \times 2) \text{ lbSO}_2/\text{lb} \\ &= 67.2 \text{ lb/hr} \\ &\quad \times 8760/2000 \\ &= 294.3 \text{ tpy} \end{aligned}$$

Nitrogen Oxide

Controlled and Uncontrolled (AP-42, Sect 1.3; 55 lb/1000 gal)

$$\begin{aligned} \text{NO}_x &= 150 \text{ gal/hr} \times (55/1000) \text{ lb/gal} \\ &= 8.3 \text{ lb/hr} \\ &\quad \times 8760/2000 \\ &= 36.1 \text{ tpy} \end{aligned}$$

4. Control Equipment

Not applicable since dryer and control systems and existing and emission measurements (10/8/87) have demonstrated the dryer operates in compliance at the proposed production rate.

5. Control Efficiency

$$\begin{aligned} \text{P.M.} &= (1500-33.2) \times 100 / 1480 \\ &= 97.8\% \end{aligned}$$

SO₂/NO_x - no control

- 6. Process Flow Diagram - Attachment 1
- 7. Location Map - Attachment 2
- 8. Site Plan - Attachment 3
- 9. Application Fee - \$1,000.00
- 10. Certificate of Completion of Construction - NA

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
(NOT APPLICABLE)

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

Yes No

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

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

Yes No

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

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

Contaminant

Rate or Concentration

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

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

2.

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

¹Explain method of determining efficiency.

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

- 4.
- a. Control Device:
 - b. Operating Principles:
 - c. Efficiency:¹
 - d. Capital Costs:
 - e. Useful Life:
 - f. Operating Cost:
 - g. Energy:²
 - h. Maintenance Cost:
 - i. Availability of construction materials and process chemicals:
 - j. Applicability to manufacturing processes:
 - k. Ability to construct with control device, install in available space, and operate within proposed levels:

F. Describe the control technology selected:

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

¹Explain method of determining efficiency.
²Energy to be reported in units of electrical power - KWH design rate.

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant	Rate or Concentration

(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 description of systems:

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

SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION

(NOT APPLICABLE)

A. Company Monitored Data

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

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

Other data recorded _____

Attach all data or statistical summaries to this application.

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

2. Instrumentation, Field and Laboratory

- a. Was instrumentation EPA referenced or its equivalent? Yes No
- b. Was instrumentation calibrated in accordance with Department procedures?
 Yes No Unknown

B. Meteorological Data Used for Air Quality Modeling

1. _____ Year(s) of data from _____ / _____ / _____ to _____ / _____ / _____
month day year month day year
2. Surface data obtained from (location) _____
3. Upper air (mixing height) data obtained from (location) _____
4. Stability wind rose (STAR) data obtained from (location) _____

C. Computer Models Used

1. _____ Modified? If yes, attach description.
2. _____ Modified? If yes, attach description.
3. _____ Modified? If yes, attach description.
4. _____ Modified? If yes, attach description.

Attach copies of all final model runs showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data

Pollutant	Emission Rate
TSP	_____ grams/sec
SO ₂	_____ grams/sec

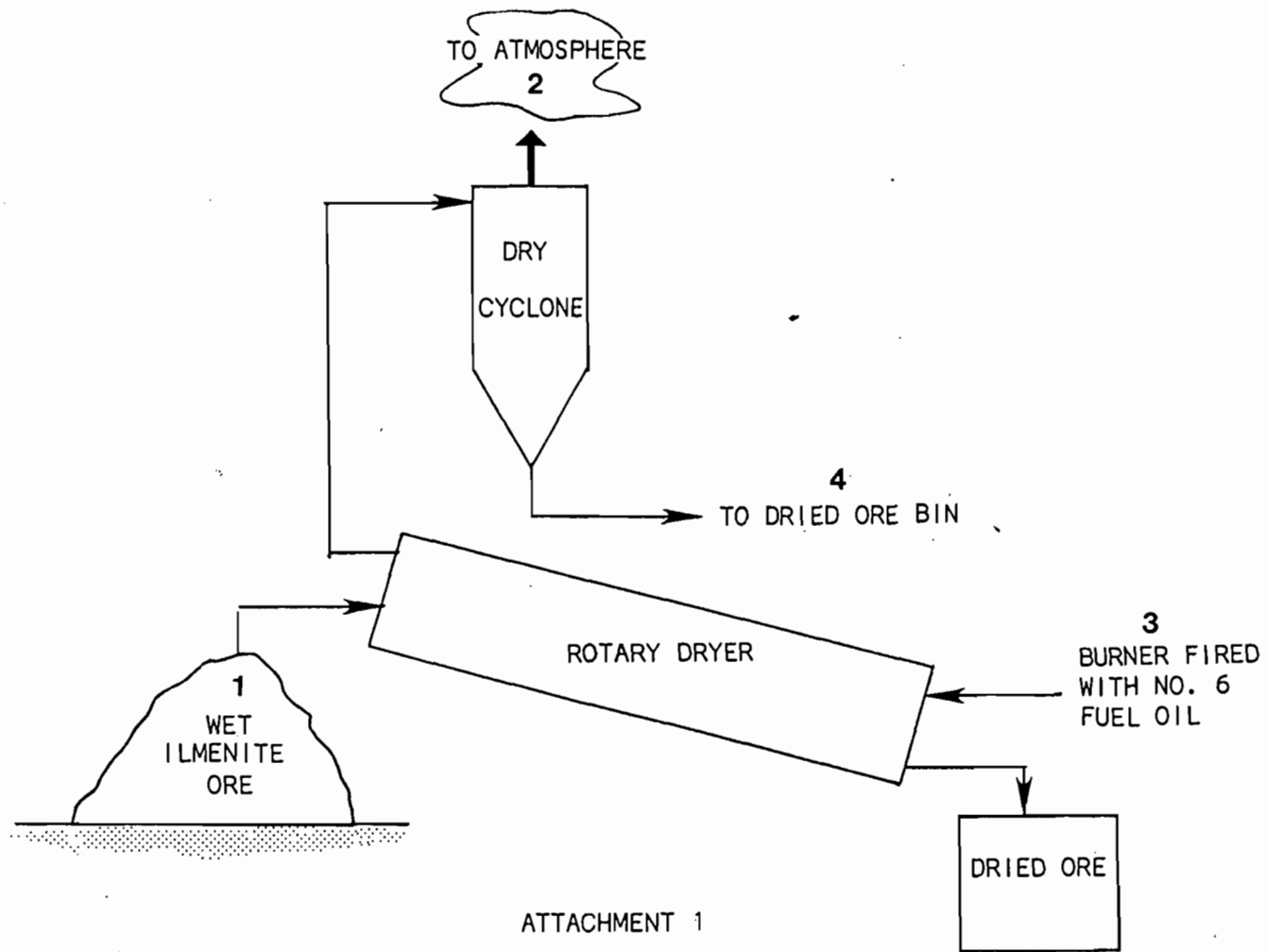
E. Emission Data Used in Modeling

Attach list of emission sources. Emission data required is source name, description of point source (on NEDS point number), UTM coordinates, stack data, allowable emissions, and normal operating time.

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

G. Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include assessment of the environmental impact of the sources.

H. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.



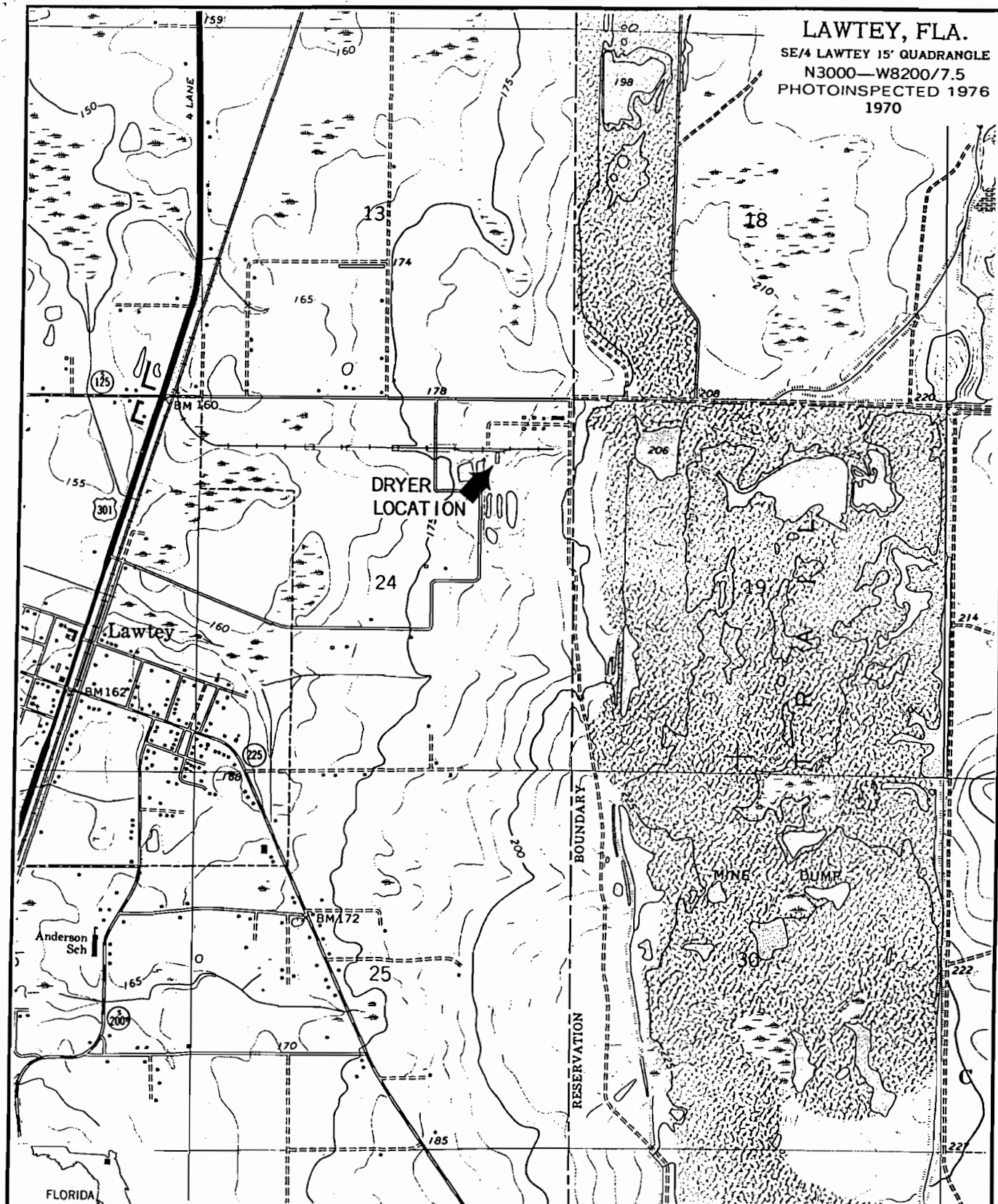
ATTACHMENT 1

PROCESS FLOW DIAGRAM
ILMENITE DRYER

E. I. DUPONT DE NEMOURS & CO., INC.

HIGHLAND PLANT
LAWTEY, FLORIDA

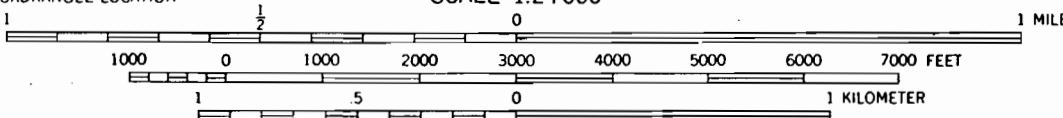
LAWTEY, FLA.
SE/4 LAWTEY 15' QUADRANGLE
N3000—W8200/7.5
PHOTOINSPECTED 1976
1970



ATTACHMENT 2

QUADRANGLE LOCATION

SCALE 1:24 000



CONTOUR INTERVAL 5 FEET
DATUM IS MEAN SEA LEVEL

KOOGLER **K_a** ASSOCIATES