

P 256 396 161

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

U.S.G.P.O. 1988-234-555

PS Form 3800, June 1985

Service	Charles NeRosier
Street and No.	The Feldspar Corp
P.O. State and ZIP Code	P.O. BOX 8
Postage	Edgar, FL
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	8-14-90
	AC 54-181147
	NOP

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

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

3. Article Addressed to: Charles D. NeRosier The Feldspar Corp. - EPK Clay P.O. BOX 8 Edgar, FL 32049	4. Article Number P 256 396 161
Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise	
Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> .	
5. Signature - Address X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent XX Diana Williams	
7. Date of Delivery 8-16-90 MB	



# 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. Charles D. DesRosier, Manager  
The Feldspar Corp. - EPK Clay Division  
Post Office Box 8  
Edgar, Florida 32049

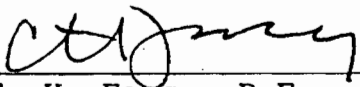
August 13, 1990

Enclosed is construction permit No. AC 54-181147 to replace existing air pollution control equipment at your facility in Edgar, Putnam County, Florida. This permit is issued pursuant to Section 403, Florida Statutes.

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

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

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

Copy furnished to:

A. Kutyna, NE District  
D. Kelley, P.E.

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of buisness on 8-14-90.

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

Kim Jaber  
Clerk

8-14-90  
Date

Final Determination

The Feldspar Corporation  
EPK Clay Division  
Putnam County  
Edgar, Florida

Replacement of Raymond Mill  
Air Pollution Control Equipment  
Permit No. AC 54-181147

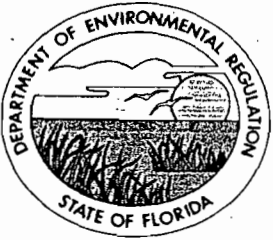
Department of Environmental Regulation  
Division of Air Resources Management  
Bureau of Air Regulation

August 10, 1990

## FINAL DETERMINATION

The construction permit application has been reviewed by the Department. Public Notice of the Department's Intent to Issue was published in the Palatka Daily News on July 24, 1990. The Technical Evaluation and Preliminary Determination were available for public inspection at the Department's Northeast District office in Jacksonville and the Bureau of Air Regulation in Tallahassee.

No comments were received during the public notice period. Therefore, the final action of the Department will be to issue the construction permit as drafted.



## 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:**

Feldspar Corporation  
Post Office Box 8  
Edgar, Florida 32049

Permit Number: AC 54-181147  
Expiration Date: Dec. 31, 1991  
County: Putnam  
Project: Replacement of Raymond  
Mill Air Pollution Control  
Equipment

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

For the installation of a baghouse to replace existing pollution control equipment. This project will be located at the applicant's facility in Edgar, Putnam County, Florida. The UTM coordinates of this site are Zone 17, 407.8 km E and 3,274.2 km N.

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

**Attachment:**

1. Application to Operate/Construct Air Pollution Sources, DER Form 17-202(1), received on May 24, 1990.

PERMITTEE:  
Feldspar Corporation

Permit Number: AC 54-181147  
Expiration Date: December 31, 1991

**GENERAL CONDITIONS:**

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

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

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

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

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

PERMITTEE:  
Feldspar Corporation

Permit Number: AC 54-181147  
Expiration Date: December 31, 1991

GENERAL CONDITIONS:

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

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

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

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

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

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



PERMITTEE:  
Feldspar Corporation

Permit Number: AC 54-181147  
Expiration Date: December 31, 1991

**GENERAL CONDITIONS:**

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

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

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

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. The permittee shall comply with the following:

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

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

PERMITTEE:  
Feldspar Corporation

Permit Number: AC 54-181147  
Expiration Date: December 31, 1991

**GENERAL CONDITIONS:**

c. Records of monitoring information shall include:

- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

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

**SPECIFIC CONDITIONS:**

1. The construction and operation of this source shall be in accordance with the capacities and specifications stated in the application.
2. The Raymond mill process and associated equipment shall be allowed to operate for up to 8,760 hours per year.
3. Visible emissions from the fabric filter shall not be greater than 5% opacity and compliance shall be demonstrated at 90-100% of capacity using DER Method 9 in accordance with F.A.C. Rule 17-2.700.
4. The compliance test shall be conducted within 30 days after operation begins and the results reported to the Department's Northeast District office before this construction permit expires. The district office shall be notified at least 15 days in advance of the test and at least 5 days prior to the source being placed in operation.
5. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).

PERMITTEE:  
Feldspar Corporation


Permit Number: AC 54-181147  
Expiration Date: December 31, 1991

SPECIFIC CONDITIONS:

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

Issued this 10<sup>th</sup> day  
of August, 1990

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
\_\_\_\_\_  
STEVE SMALLWOOD, P.E.  
Director  
Division of Air Resources  
Management



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: Steve Smallwood  
FROM: Clair Fancy *CF*  
DATE: August 10, 1990  
SUBJ: Approval of Construction Permit No. 54-181147  
The Feldspar Corp. - EPK Clay Division

Attached for your approval and signature is a permit prepared by the Bureau of Air Regulation for the above mentioned company to replace existing air pollution control equipment at their facility in Edgar, Putnam County, Florida.

No comments were received during the public notice period.

Day 90, after which this permit will be issued by default, is September 18, 1990.

I recommend your approval and signature.

CF/JR/plm

Attachments

In the folder labeled as follows there are documents, listed below, which were not reproduced in this electronic file. Those documents can be found in the supplementary documents file drawer. Folders in that drawer are arranged alphabetically, then by permit number.

Folder Name: The Feldspar  
Putnam Co.  
AC 54-181147

Period During Which  
DOCUMENT WAS  
SUBMITTED  
(APPLICATION, PD & TE,  
FINAL DETERMINATION,  
POST PERMIT)

APP

Detailed Description

1. PUBLICATION 391  
DMC Dalamatic cased dust  
filters series DLM 10 & 15

P 407 802 155  
**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED  
 NOT FOR INTERNATIONAL MAIL

(See Reverse)

U.S.G.P.O. 1989-234-555

PS Form 3800, June 1985

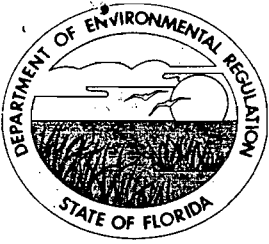
Sent to C.D. DesRosier	
Street and No. Feldspar Corp	
City, State and ZIP Code Edgar, FL	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date 3-27-91 AC 54-181147	

**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 boxes) for additional service(s) requested.

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

3. Article Addressed to: C.D. DesRosier Plant Mgr The Feldspar Corp. P.O. Box 8 Edgar, FL 32049		4. Article Number P 407 802 155	
5. Signature - Addressee X		Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise	
6. Signature - Agent X <i>[Signature]</i>		Always obtain signature of addressee or agent and <b>DATE DELIVERED</b> .	
7. Date of Delivery 4-1-91 <i>[Signature]</i>		8. Addressee's Address (ONLY if requested and fee paid)	



# Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

March 27, 1991

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. C. D. DesRosier, Plant Manager  
The Feldspar Corporation  
P. O. Box 8  
Edgar, Florida 32049

Dear Mr. DesRosier:

The Department received your request for an extension of the expiration date for the construction permit referenced below. The request is acceptable and the following shall be changed:

Project: AC 54-181147

From: December 31, 1991  
To: April 30, 1992

Attachment to be Incorporated:

Letter from Feldspar Corporation dated February 28, 1991 requesting a change in the expiration date.

This letter must be attached to your construction permit, AC 54-181147, and shall become a part of that permit.

Sincerely,

STEVE SMALLWOOD, P.E.  
Director  
Division of Air Resources  
Management

SS/JR/plm

c: A. Kutyna, NE District



A subsidiary of **ZEMEX** Corporation

EPK Clay Division  
Post Office Box 8, Edgar, FL 32049  
(904) 481-2421 FAX: (904) 481-2334

February 28, 1991

Florida D.E.R.  
Twin Towers Office Bldg.  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Attn: C.H. Yancey, P.E.  
Chief  
Bureau of Air Regulation

Subject: Construction Permit #AC54-181147

Enclosed is a copy of an extension request for Raymond Mill Operating Permit #AO 54-164952, which has been submitted to your Jacksonville office. Please note in paragraph three the comment regarding Specific Condition #6 of Construction Permit #AC 54-181147.

With the revised installation schedule, we request a three month extension of this Construction Permit to March 31, 1992 to allow sufficient time for compliance with Specific Condition #6.

Your favorable consideration of this request will be greatly appreciated.

Sincerely,

A handwritten signature in cursive script that reads "R. VanAuker".

R. VanAuker  
Assistant Manager  
THE FELDSPAR CORPORATION  
EPK CLAY DIVISION

RV/dw

Enclosure

*J. Reynolds*

RECEIVED

MAR 04 1991

DER-BAQ





A subsidiary of **ZEMEX** Corporation

EPK Clay Division  
Post Office Box 8, Edgar, FL 32049  
(904) 481-2421 FAX: (904) 481-2334

February 12, 1991

William P. Stewart, P.E.  
District Air Program Administrator  
Florida Dept. of Environmental Regulation  
3426 Bills Road  
Jacksonville, FL 32207

Dear Mr. Stewart:

Putnam County - AP  
The Feldspar Corporation  
Raymond Mill

Request a nine (9) month extension be granted our Raymond Mill Operating Permit #AO 54-164952 which is due to expire, as extended, on March 31, 1991. The granting of this request would extend the expiration date of this permit to December 31, 1991, and provide the time required to complete the project designed to bring our Raymond Mill operations into AAQS compliance. Construction permit #AC 54-181147, which also expires on December 31, 1991, applies to this project.

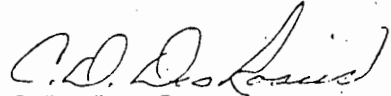
This request is prompted by the adverse effect the current economic downturn is having on the sales of our products which are tied, almost exclusively, to the heavily impacted home building and construction industries. The magnitude of this sales decline has been very significant as has its effect on the availability of funding for capital projects. We have restructured our capital expenditure plan and are taking appropriate alternative measures which will permit us to proceed with the restructured plan. In this plan, we wish to defer the implementation of the project from mid-March, 1991, to no later than July 1, 1991. A copy of the original, mid-March implementation schedule is attached as Exhibit A with the restructured schedule added in red.

The original schedule would have required a six (6) month extension of the Raymond Mill operating permit. The estimated project completion under this schedule was October 1, 1991, well in advance of the expiration date of the construction permit. The restructured schedule will be more restrictive and require closer control, but project completion by the December 31 expiration date is not expected to be a problem. Extension of the construction permit should not be required except to comply with Specific Condition #6 of the construction permit.

William P. Stewart, P.E.  
Page 2

Your approval of this request for permit extension will be appreciated.

Sincerely,



C.D. Des Rosier  
Plant Manager  
THE FELDSPAR CORPORATION  
EPK CLAY DIVISION

CDD/dw

E.P.K. CLAY DIVISION

TABLE II

IMPLEMENTATION AND SPENDING SCHEDULE

	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.
E.E. APPROVAL												
EQUIPMENT PROCUREMENT												
INSTALLATION												
SYSTEM START-UP COMPLIANCE TESTING												
PERMIT APPLICATION PREPARATION												



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: Steve Smallwood

FROM: Clair Fancy

DATE: March 27, 1991

SUBJ: Amendment to Construction Permit No. AC 54-181147  
The Feldspar Corporation

Attached for your approval and signature is a letter extending the expiration date for the above referenced construction permit.

The Bureau recommends approval of this amendment.

CF/JR/plm

Attachment



A subsidiary of **ZEMEX** Corporation

EPK Clay Division  
Post Office Box 8, Edgar, FL 32049  
(904) 481-2421 FAX: (904) 481-2334

February 28, 1991

Florida D.E.R.  
Twin Towers Office Bldg.  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Attn: C.H. Yancey, P.E.  
Chief  
Bureau of Air Regulation

Subject: Construction Permit #AC54-181147

Enclosed is a copy of an extension request for Raymond Mill Operating Permit #AO 54-164952, which has been submitted to your Jacksonville office. Please note in paragraph three the comment regarding Specific Condition #6 of Construction Permit #AC 54-181147.

With the revised installation schedule, we request a three month extension of this Construction Permit to March 31, 1992 to allow sufficient time for compliance with Specific Condition #6.

Your favorable consideration of this request will be greatly appreciated.

Sincerely,

R. VanAuker  
Assistant Manager  
THE FELDSPAR CORPORATION  
EPK CLAY DIVISION

RV/dw

Enclosure

*J. Reynolds*

RECEIVED

MAR 04 1991

DER-BAQM

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

**CERTIFIED**

P 821 433 135

**MAIL**



THE **F**eldspar  
CORPORATION

Box 99 Spruce Pine, N.C. 28777

**TO:**

Florida D.E.R.  
Twin Towers Office Bldg.  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400  
Attn: C.H. Yancey, P.E.



A subsidiary of **ZEMEX** Corporation

EPK Clay Division  
Post Office Box 8, Edgar, FL 32049  
(904) 481-2421 FAX: (904) 481-2334

February 12, 1991

William P. Stewart, P.E.  
District Air Program Administrator  
Florida Dept. of Environmental Regulation  
3426 Bills Road  
Jacksonville, FL 32207

Dear Mr. Stewart:

Putnam County - AP  
The Feldspar Corporation  
Raymond Mill

Request a nine (9) month extension be granted our Raymond Mill Operating Permit #AO 54-164952 which is due to expire, as extended, on March 31, 1991. The granting of this request would extend the expiration date of this permit to December 31, 1991, and provide the time required to complete the project designed to bring our Raymond Mill operations into AAQS compliance. Construction permit #AC 54-181147, which also expires on December 31, 1991, applies to this project.

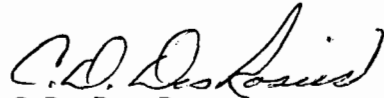
This request is prompted by the adverse effect the current economic downturn is having on the sales of our products which are tied, almost exclusively, to the heavily impacted home building and construction industries. The magnitude of this sales decline has been very significant as has its effect on the availability of funding for capital projects. We have restructured our capital expenditure plan and are taking appropriate alternative measures which will permit us to proceed with the restructured plan. In this plan, we wish to defer the implementation of the project from mid-March, 1991, to no later than July 1, 1991. A copy of the original, mid-March implementation schedule is attached as Exhibit A with the restructured schedule added in red.

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William P. Stewart, P.E.  
Page 2

Your approval of this request for permit extension will be appreciated.

Sincerely,



C.D. Des Rosier  
Plant Manager  
THE FELDSPAR CORPORATION  
EPK CLAY DIVISION

CDD/dw



E.P.K. CLAY DIVISION

TABLE II

IMPLEMENTATION AND SPENDING SCHEDULE

	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.
A.F.E. APPROVAL	→											
EQUIPMENT PROCUREMENT			\$25,780	→		\$5415	\$56,560	→				
INSTALLATION							\$25,780	→		→		
SYSTEM START-UP AND COMPLIANCE TESTING								→		→		
PERMIT APPLICATION PREPARATION									→		→	



A subsidiary of **ZEMEX** Corporation

EPK Clay Division  
Post Office Box 8, Edgar, FL 32049  
(904) 481-2421 FAX: (904) 481-2334

July 30, 1990

RECEIVED  
JUL 31 1990

DER-BAQ

Florida D.E.R.  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

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

Ref. D.E.R. Tile No. AC 54-181147

Dear Mr. Fancy:

In compliance with your letter of July 13, 1990 regarding the above referenced application, attached as proof of publication is a copy of the Public Notice published in the legal ad section of the July 24, 1990 issue of the Palatka Daily News.

Please advise should this action not meet compliance requirements.

Sincerely,

Richard VanAuker  
Asst. Manager  
THE FELDSPAR CORPORATION  
EPK CLAY DIVISION

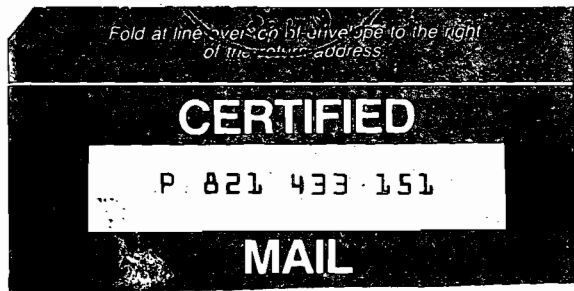
RV/dw

enclosure

cc: J. Reynolds  
A. Kutyna, NE Dist

THE **Feldspar**  
CORPORATION

EPK Clay Division  
Post Office Box 8, Edgar, FL 32049



Florida D.E.R.  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400  
Attn: Mr. C.H. Fancy, P.E.

PUBLIC NOTICE

STATE OF FLORIDA  
DEPARTMENT OF  
ENVIRONMENTAL  
REGULATION

Notice of Intent to Issue

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit to The Feldspar Corp.-EPK Clay Division, Rt. C20A, Edgar, Florida 32049, to install a fabric filter at their facility in Edger, Putnam County, Florida. A determination of Best Available Control Technology (BACT) was not required. The Department is issuing this intent to issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

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

The Petition shall contain the following information:

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

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by

STATE OF FLORIDA }  
County of Putnam } SS:

Personally appeared before me, a Notary Public for the State of Florida at Large, Joyce Guthrie who deposes and says that she is Business Office Manager of The Palatka Daily News, a daily newspaper printed in the English Language and of general circulation, published in the City of Palatka, in said County and State; and that the attached order, notice, publication and/or advertisement of NOTICE OF INTENT TO ISSUE

was published in said newspaper The Palatka Daily News, Inc. for a period of One Insertion consecutively, beginning July 24, 1990 and ending July 24, 1990 said publication being made on the following dates:  
July 24, 1990

*And deponent further says that The Palatka Daily News has been continuously published as a daily newspaper, and has been entered as second class mail matter at the postoffice at the City of Palatka, Putnam County, Florida, each for a period of more than one year next preceding the date of the first publication of the above described order, notice, publication and/or advertisement.*

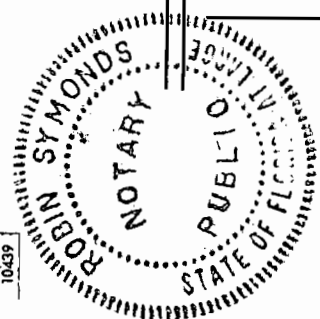
Subscribed and sworn to before me this

24th day of July, A. D. 1990

Robin Symonds  
Notary Public  
State of Florida at Large  
My Commission Expires March 17, 1992

Joyce Guthrie

No. 10439



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

The application is available for public inspection during business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at: Department of Environmental Regulation, Bureau of Air Regulation, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Department of Environmental Regulation, Northeast District, 3426 Billis Road, Jacksonville, Florida 32207. Any person may send written comments on the proposed action to Mr. Barry Andrews 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.

10439  
July 24, 1990

P 256 396 117

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

U.S.G.P.O. 1989-234-555

PS Form 3800, June 1985

Send to Charles DesRosier	
Street and No. Feldspar Corp.	
P.O., State and ZIP Code P.O. Box 8	
Postage Edgar, FL	\$
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 7-16-90	
AC 54-181147	

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

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

3. Article Addressed to: Charles D. DesRosier, Mgr. The Feldspar Corp. EPK Clay Div. P.O. Box 8 Edgar, FL 32049	4. Article Number P 256 396 117
5. Signature - Address X	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
6. Signature - Agent X <i>H. Williams</i>	Always obtain signature of addressee or agent and DATE DELIVERED.
7. Date of Delivery 7-17-90 MB	8. Addressee's Address (ONLY if requested and fee paid)

PS

DOMESTIC RETURN RECEIPT



# Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

July 13, 1990

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Charles D. DesRosier, Manager  
The Feldspar Corp. - EPK Clay Division  
Post Office Box 8  
Edgar, Florida 32049

Dear Mr. DesRosier:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permit for the Feldspar Corporation to replace existing pollution control equipment at the Edgar facility.

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

Sincerely,

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

CHF/JR/plm

Attachments

c: A. Kutyna, NE District  
D. Kelley, P.E.

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on 7-16-90.

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

Kurti Joken 7-16-90  
Clerk Date

BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of  
Application for Permit by:

The Feldspar Corp. - EPK Clay Division      DER File No. AC 54-181147  
Post Office Box 8  
Edgar, Florida 32049

---

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, Feldspar Corporation-EPK Clay Division, applied on May 24, 1990, to the Department of Environmental Regulation for a permit to install a baghouse to replace existing pollution control equipment at their facility in Edgar, Putnam County, Florida.

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

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

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



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

The Petition shall contain the following information;

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

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

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

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

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

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

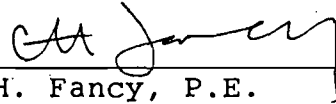
(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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

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

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION



---

C. H. Fancy, P.E.

Chief

Bureau of Air Regulation

Copies furnished to:

- A. Kutyna, NE District
- D. Kelley, P.E.

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

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit to The Feldspar Corp. - EPK Clay Division, Rt. C20A, Edgar, Florida 32049, to install a fabric filter at their facility in Edgar, Putnam County, Florida. A determination of Best Available Control Technology (BACT) was not required. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

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

The Petition shall contain the following information:

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

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

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

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

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

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

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

Technical Evaluation  
and  
Preliminary Determination

The Feldspar Corporation  
EPK Clay Division  
Putnam County  
Edgar, Florida

Replacement of Raymond Mill  
Air Pollution Control Equipment  
Permit No. AC 54-181147

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

July 13, 1990

## I. Application

### A. Address

The Feldspar Corporation  
Post Office Box 8  
Edgar, Florida 32049

### B. Request

The Department received a complete application on May 31, 1990, for a permit to replace existing air pollution control equipment at the applicant's facility in Edgar, Putnam County, Florida.

### C. Project Location

The applicant's facility is located on Route C20A next to the U.S. Post Office in Edgar, Putnam County, Florida. The UTM coordinates of the source are Zone 17, 407.8 km East and 3274.2 km North.

## II. Project Description/Emissions

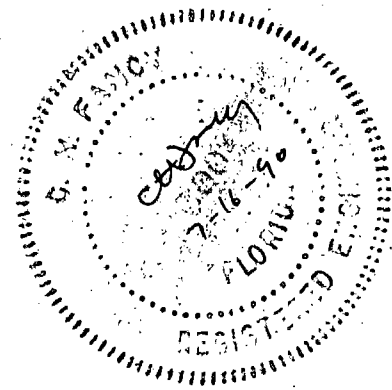
This project involves no increase in actual emissions. In fact, actual emissions of particulate matter should be reduced. The applicant proposes to replace two old scrubbers with a new baghouse for controlling pulverized clay dust emitted from their existing ceramic clay grinding process. The equipment to be replaced consists of a cyclone and scrubber for Raymond mill dust control and a second scrubber for the loading and bagging operation. The new baghouse will collect dust from the existing pickup points as well as a new pickup point at the rail car loading station. Emissions from the baghouse will be 2.59 lbs/hr and 11.3 tons/yr. Fugitive dust emissions are estimated at 5.96 lbs/hr and 26.0 tons/yr, however, most of the fugitive dust will settle out within the plant.

## III. Rule Applicability

The proposed project is subject to review under Chapter 403, Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4. The facility is located in an area classified as attainment for total suspended particulate. The applicable emission limits are set forth in F.A.C. Rule 17-2.610, General Particulate Emission Limiting Standards. However, rather than applying a mass emission limit and requiring a Method 5 compliance test, an alternative standard of 5 percent opacity will be specified in the permit in accordance with F.A.C. Rule 17-2.700(3)(d).

#### IV. Conclusion

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





# Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

**PERMITTEE:**

Feldspar Corporation  
Post Office Box 8  
Edgar, Florida 32049

Permit Number: AC 54-181147  
Expiration Date: Dec. 31, 1991  
County: Putnam  
Project: Replacement of Raymond  
Mill Air Pollution Control  
Equipment

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

For the installation of a baghouse to replace existing pollution control equipment. This project will be located at the applicant's facility in Edgar, Putnam County, Florida. The UTM coordinates of this site are Zone 17, 407.8 km E and 3,274.2 km N.

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

**Attachment:**

1. Application to Operate/Construct Air Pollution Sources, DER Form 17-202(1), received on May 24, 1990.



PERMITTEE:  
Feldspar Corporation

Permit Number: AC 54-181147  
Expiration Date: December 31, 1991

**GENERAL CONDITIONS:**

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

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

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

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

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

PERMITTEE:  
Feldspar Corporation

Permit Number: AC 54-181147  
Expiration Date: December 31, 1991

**GENERAL CONDITIONS:**

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

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

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

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

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

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

PERMITTEE:  
Feldspar Corporation

Permit Number: AC 54-181147  
Expiration Date: December 31, 1991

**GENERAL CONDITIONS:**

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

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

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

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. The permittee shall comply with the following:

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

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

PERMITTEE:  
Feldspar Corporation

Permit Number: AC 54-181147  
Expiration Date: December 31, 1991

**GENERAL CONDITIONS:**

c. Records of monitoring information shall include:

- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

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

**SPECIFIC CONDITIONS:**

1. The construction and operation of this source shall be in accordance with the capacities and specifications stated in the application.

2. The Raymond mill process and associated equipment shall be allowed to operate for up to 8,760 hours per year.

3. Visible emissions from the fabric filter shall not be greater than 5% opacity and compliance shall be demonstrated at 90-100% of capacity using DER Method 9 in accordance with F.A.C. Rule 17-2.700.

4. The compliance test shall be conducted within 30 days after operation begins and the results reported to the Department's Northeast District office before this construction permit expires. The district office shall be notified at least 15 days in advance of the test and at least 5 days prior to the source being placed in operation.

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

PERMITTEE:  
Feldspar Corporation

Permit Number: AC 54-181147  
Expiration Date: December 31, 1991

**SPECIFIC CONDITIONS:**

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

Issued this \_\_\_\_\_ day  
of \_\_\_\_\_, 1990

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

---

STEVE SMALLWOOD, P.E.  
Director  
Division of Air Resources  
Management

ATTACHMENTS AVAILABLE UPON REQUEST

DEPARTMENT OF ENVIRONMENTAL REGULATION

RECEIVED  
MAY 31 1990  
DER-BAQM

**ROUTING AND TRANSMITTAL SLIP**

ACTION NO

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)

*Barry Andrews, DARM, BAR, CAPS*

Initial

Date

2.

Initial

Date

3.

Initial

Date

4.

Initial

Date

REMARKS:

*The enclosed ACP is from Feldspar, a major facility for PM, for a CP to install a boghouse on the Raymond Mill.*

*PATS #181147*

INFORMATION

Review & Return

Review & File

Initial & Forward

DISPOSITION

Review & Respond

Prepare Response

For My Signature

For Your Signature

Let's Discuss

Set Up Meeting

Investigate & Report

Initial & Forward

Distribute

Concurrence

For Processing

Initial & Return

FROM:

*Johnny Cole*

DATE

*05-30-90*

PHONE

|



CORPORATION, SPRUCE PINE, N.C.

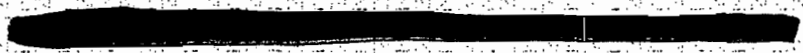
No. 055431

66-216  
531

<b>PAY TO THE ORDER OF</b>	<b>DATE</b>	<b>CHECK NO.</b>	<b>AMOUNT</b>
Florida Department of Environmental Regulation	5/18/90	55431	\$500.00
<b>EDGAR-CLAY \$500 AND 00 CTS</b>			

THE BANK OF NEW YORK  
WHITE PLAINS, N.Y.

*C. D. DesRosier*  
*Katharine C. Quinn*  
 THE FELDSPAR CORPORATION



STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

No 155412

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from The Feldspar Corp Date May 25, 1990  
 Address P O Box 8 Edgar, Fl 32049 Dollars \$ 500.00  
 Applicant Name & Address Charles D. DesRosier Same addr  
 Source of Revenue The Feldspar Corp Raymond Mill  
 Revenue Code 001031 CK # 055431 Application Number AC 54-181147  
 By Gloria Badger



STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

AC 54-181147

# 500 pd  
5-24-90  
Recpt # 155412

NORTHEAST DISTRICT  
3426 BILLS ROAD  
JACKSONVILLE, FLORIDA 32207  
904/798-4200

RECEIVED

MAY 31 1990



NORTHEAST DISTRICT  
RECEIVED  
MAY 24 1990  
DER-JACKSONVILLE

BOB MARTINEZ  
GOVERNOR  
DALE TWACHTMANN  
SECRETARY  
ERNEST E. FREY  
DISTRICT MANAGER  
MARY L. SHAFFER  
ASSISTANT DISTRICT MANAGER

DER-BAQM

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: \_\_\_\_\_ [ ] New<sup>1</sup> [X] Existing<sup>1</sup>

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

COMPANY NAME: The Feldspar - EPK Clay Division COUNTY: Putnam

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) Raymond Mill

SOURCE LOCATION: Street \_\_\_\_\_ Route C20A City Edgar

UTM: East 407.778 North 3,274.203

Latitude 29 ° 35 ' 20 "N Longitude 81 ° 57 ' 30 "W

APPLICANT NAME AND TITLE: Charles D. DesRosier, Manager

APPLICANT ADDRESS: Post Office Box 8 Edgar, Florida 32049

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative\* of The Feldspar Corp-EPK Clay D.

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: *C.D. DesRosier*

Charles D. DesRosier, Manager  
Name and Title (Please Type)

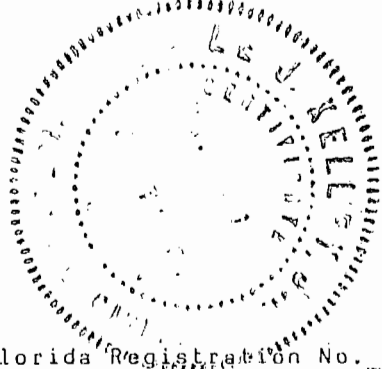
Date: 5-18-90 Telephone No. (904) 481-2421

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

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

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

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



Signed *Dole J. Kelley*

Dole J. Kelley, P.E.  
Name (Please Type)

Dole J. Kelley, Consulting Engineer  
Company Name (Please Type)

1646 Rogero Road, Jacksonville, Florida 32211  
Mailing Address (Please Type)

Florida Registration No. 6519 Date: 5-18-90 Telephone No. (904) 743-4700

SECTION II: GENERAL PROJECT INFORMATION

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

This construction permit will allow the almost total clean-up of our existing Raymond Mill process which pulverizes dried clay. A new baghouse will be installed to take the place of an old cyclone and scrubber (in series). This baghouse will also collect fugitive dust from our loading and bagging operations and will replace another old scrubber previously used for that operation.

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

Start of Construction Sept. 1, 1990 Completion of Construction Dec. 31, 1990

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.)

Complete system \$120,000.00

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

Source ID Number 3154000102

Permit Number A054-84816 6/19/84 to 6/19/89

Application for renewal 5/1/89 is pending based on the completion of this project

E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ;  
if power plant, hrs/yr 8736; if seasonal, describe: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

F. If this is a new source or major modification, answer the following questions.  
(Yes or No) This is not a new source. The only modification involves replacing existing  
pollution control equipment.

1. Is this source in a non-attainment area for a particular pollutant? \_\_\_\_\_
  - a. If yes, has "offset" been applied? \_\_\_\_\_
  - b. If yes, has "Lowest Achievable Emission Rate" been applied? \_\_\_\_\_
  - c. If yes, list non-attainment pollutants. \_\_\_\_\_
2. Does best available control technology (BACT) apply to this source?  
If yes, see Section VI. \_\_\_\_\_
3. Does the State "Prevention of Significant Deterioration" (PSD)  
requirement apply to this source? If yes, see Sections VI and VII. \_\_\_\_\_
4. Do "Standards of Performance for New Stationary Sources" (NSPS)  
apply to this source? \_\_\_\_\_
5. Do "National Emission Standards for Hazardous Air Pollutants"  
(NESHAP) apply to this source? \_\_\_\_\_

- H. Do "Reasonably Available Control Technology" (RACT) requirements apply  
to this source? \_\_\_\_\_
- a. If yes, for what pollutants? \_\_\_\_\_
  - b. If yes, in addition to the information required in this form,  
any information requested in Rule 17-2.650 must be submitted.

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

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

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
Kaolin Clay	Particulate	100%	14,028 lbs/hr	A

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

- Total Process Input Rate (lbs/hr): 14,028 lbs/hr
- Product Weight (lbs/hr): 14,019 lbs/hr

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

Name of Contaminant	CONTROLLED Emission <sup>1</sup> ESTIMATE		Allowed <sup>2</sup> Emission Rate per Rule 17-2	Allowable <sup>3</sup> Emission lbs/hr	UNCONTROLLED Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual 1/yr			lbs/yr	1/yr	
Particulate	8.55	37.34	17-2.610(1)(b) 17-2.610(2)(a) and 17-2.650(2)(c) see below *	12 lbs/hr 20% opacity 11.b(i) 5% opacity	570.38	2526.36	B

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

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

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

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

\* We request to be allowed 5% opacity continuous and 20% opacity for up to 48 hours in case a bag breaks so we can have time to repair it. per 17-2.700(3)(d)  
We request annual VE testing only.

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)
DCE, Inc. model 2/6/15 pulsejet type baghouse	Particulate	99.5%	85% >.2 micron 90% < 10 micron	manufacturer
Air to cloth Ratio = 4.13:1				
1936 ft <sup>2</sup> filter area				
8000 CFM @ 180° F				
ΔP = 4.0" W.C. after bags are coated with dust cake				

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
Natural Gas *	.0007 MMCF/hr	.0015 MMCF/hr	1.5 MMBTU/hr
* -1000 BTUS per cubic foot			

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

Fuel Analysis:

Percent Sulfur: negligible Percent Ash: negligible

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

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

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

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

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

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

Dust from baghouse is added to finished product

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

Stack Height: 2'-6" ft. Stack Diameter: 21 5/8" x 19 5/8" ft.  
 Gas Flow Rate: 7650 ACFM          DSCFM Gas Exit Temperature: 180 °F.  
 Water Vapor Content:          % Velocity: 7650 ÷ 2.94 ft<sup>2</sup> ÷ 60 sec/min = 43.3 FPS

SECTION IV: INCINERATOR INFORMATION

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

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

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

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

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

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

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

**SECTION V: SUPPLEMENTAL REQUIREMENTS**

Please provide the following supplements where required for this application.

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

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

**SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY**

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

Yes  No

Contaminant	Rate or Concentration

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

Yes  No

Contaminant	Rate or Concentration

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

Contaminant	Rate or Concentration

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

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

\*Explain method of determining



- 5. Useful Life:
- 7. Energy:
- 9. Emissions:

- 6. Operating Costs:
- 8. Maintenance Cost:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

10. Stack Parameters

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

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

1.

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

2.

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

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

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

- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

3.

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

4.

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

F. Describe the control technology selected:

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

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

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

(5) Environmental Manager:

(6) Telephone No.:

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

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

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

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

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

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

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

10. Reason for selection and description of systems:

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

**SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION**

**A. Company Monitored Data**

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

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

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

Attach all data or statistical summaries to this application.

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

2. Instrumentation, Field and Laboratory

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

B. Meteorological Data Used for Air Quality Modeling

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

C. Computer Models Used

- 1. \_\_\_\_\_ Modified? If yes, attach description.
- 2. \_\_\_\_\_ Modified? If yes, attach description.
- 3. \_\_\_\_\_ Modified? If yes, attach description.
- 4. \_\_\_\_\_ Modified? If yes, attach description.

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

D. Applicants Maximum Allowable Emission Data

Pollutant	Emission Rate
TSP	_____ grams/sec
SO <sup>2</sup>	_____ grams/sec

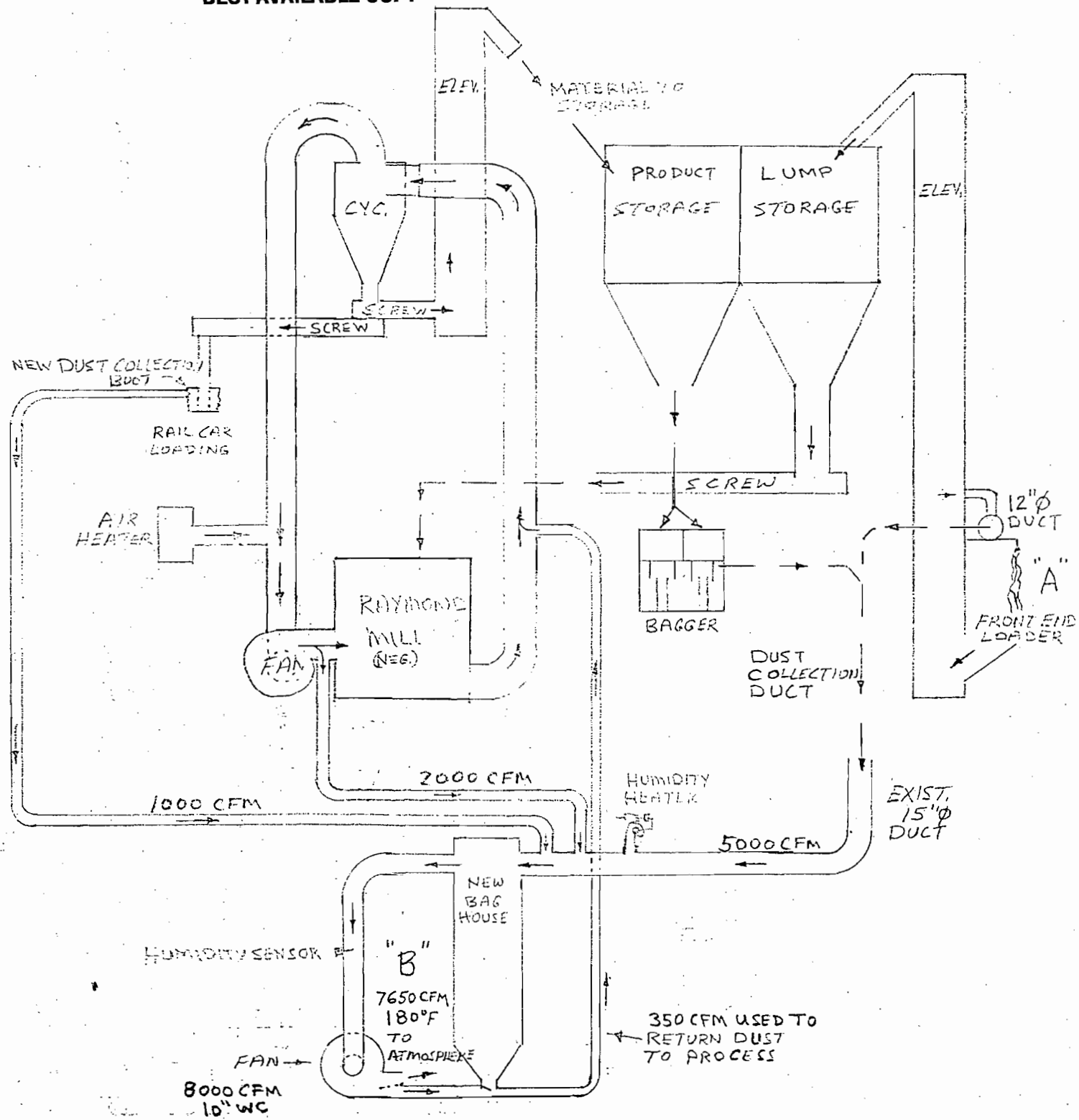
E. Emission Data Used in Modeling

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

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

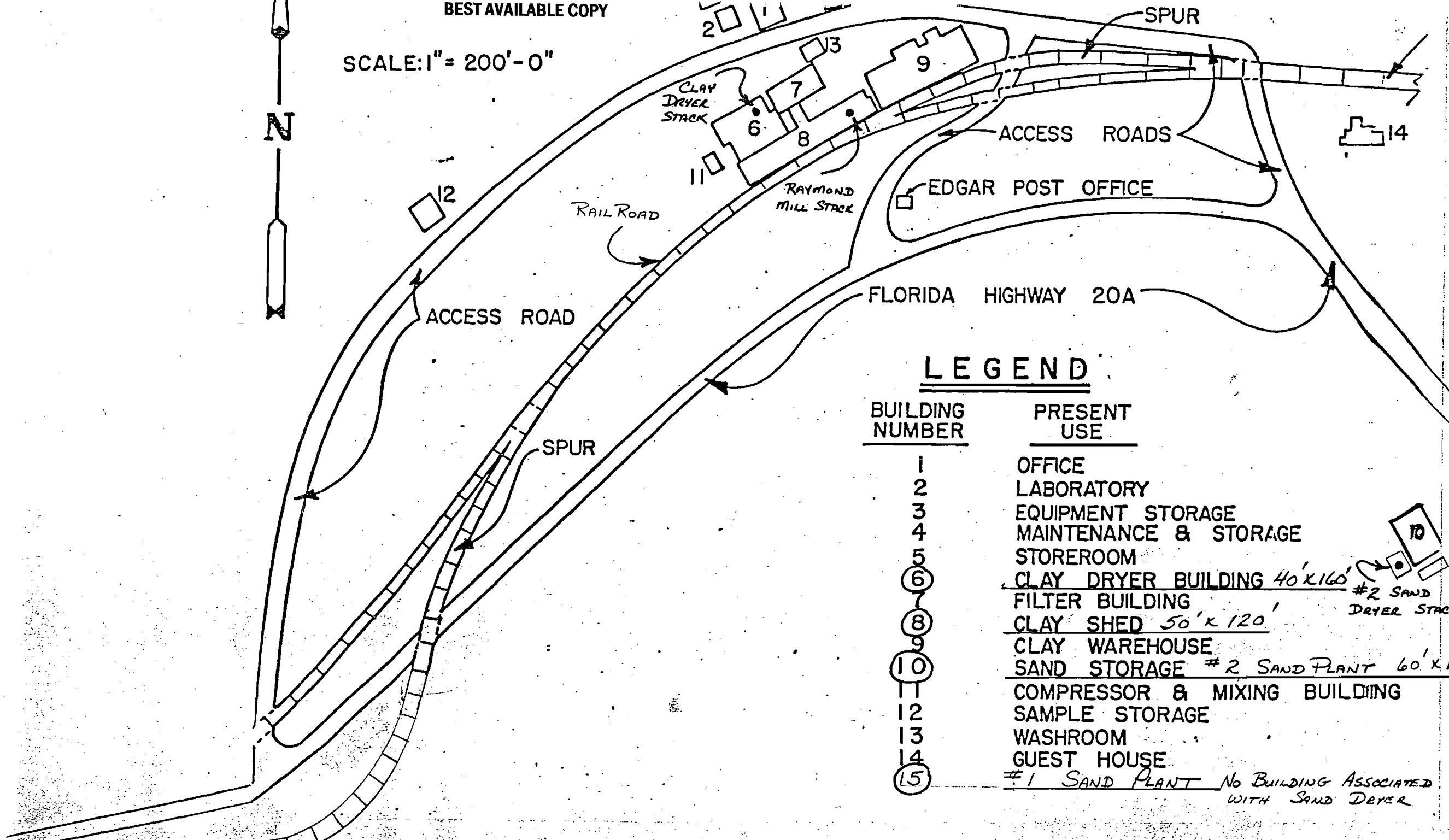
G. Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include assessment of the environmental impact of the sources.

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



BEST AVAILABLE COPY

SCALE: 1" = 200'-0"



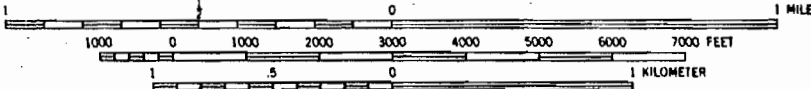
### LEGEND

BUILDING NUMBER	PRESENT USE
1	OFFICE
2	LABORATORY
3	EQUIPMENT STORAGE
4	MAINTENANCE & STORAGE
5	STOREROOM
6	CLAY DRYER BUILDING 40' x 160'
7	FILTER BUILDING
8	CLAY SHED 50' x 120'
9	CLAY WAREHOUSE
10	SAND STORAGE #2 SAND PLANT 60' x 10'
11	COMPRESSOR & MIXING BUILDING
12	SAMPLE STORAGE
13	WASHROOM
14	GUEST HOUSE
15	#1 SAND PLANT No BUILDING ASSOCIATED WITH SAND DRYER

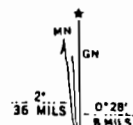
#1 SAND PLANT 15



SCALE 1:24 000

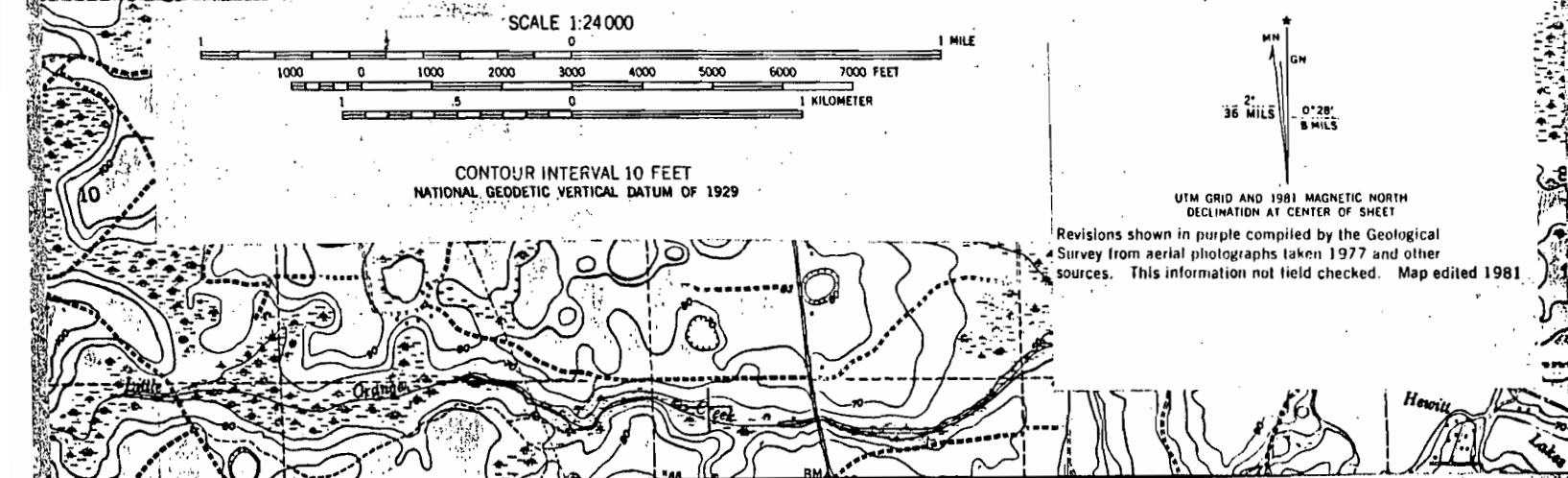


CONTOUR INTERVAL 10 FEET  
NATIONAL GEODETIC VERTICAL DATUM OF 1929



UTM GRID AND 1981 MAGNETIC NORTH  
DECLINATION AT CENTER OF SHEET

Revisions shown in purple compiled by the Geological Survey from aerial photographs taken 1977 and other sources. This information not field checked. Map edited 1981



## SECTION V SUPPLEMENTAL REQUIREMENTS

1. Total process input rate by weight

Kaolin clay input to Raymond Mill = 14,028 lbs/hr \*

\* Based on average of annual production rate.

Estimated product loss after entering the Raymond Mill process (with new controls in operation). Loss is due to spillage at bagging machine or dust which becomes airborne and is not collected by the dust collection system. Dust from baghouse is returned to product stream

Estimated Loss = 9 lbs/hr\*\*

\*\* Based on observation at the plant site and calculations which follow

Kaolin clay output (Product weight)

14,028 lbs/hr input - 9 lbs/hr loss = 14,019 lbs/hr product weight

2. Estimate of maximum uncontrolled emissions from Raymond Mill, rail car loading, bagging operations, and front end loader.

1.	Dust from Raymond Mill (1)	53.3	lbs/hr
2.	Dust from cyclone/scrubber system (2)	479.7	lbs/hr
3.	Dust from bagger (3)	24.55	lbs/hr
4.	Dust from front end loader dump hopper (4)	14.0	lbs/hr
5.	Dust from rail car loading (5)	6.83	lbs/hr
	Total potential uncontrolled emissions	578.38	lbs/hr

Annually  $8736 \frac{\text{hrs}}{\text{yr}} \times 578.38 \text{ lbs/hr} \div 2000 \text{ lbs/ton} = 2526.36 \text{ tons/yr}$

### Basis for Estimates

1. AP-42 Section 8.7 Table 8.7-1 says uncontrolled emissions from grinding ceramic clay (Kaolin) is 76 lbs/ton.

$$14,028 \text{ lbs/hr} \times \frac{1 \text{ ton}}{2000 \text{ lbs}} \times 76 \text{ lbs/ton} = 533 \text{ lbs/hr}$$

Emissions from the Raymond Mill leaks are estimated to be 10% of the total potential emissions from grinding



2. Included in #1 above and since the cyclone/scrubber system is used to minimize Raymond Mill leaks, most of the dust (90%) enters the cyclone/scrubber system.  
 $90\% \times 533 \text{ lbs/hr} = 479.7 \text{ lbs/hr}$

3. Approximately 35% of total product is bagged. Dust from bagger is estimated to be 5 lbs/ton based on the observation that about .25 lbs escapes from each 50 lb bag.  
 $\frac{.25 \text{ lbs}}{50 \text{ lbs}} = .005 = .5\% = 10 \text{ lbs/ton}$

$$14,028 \text{ lbs/hr} \times 35\% \times \frac{1 \text{ ton}}{2000 \text{ lbs}} \times 10 \text{ lbs/ton} = 24.55 \text{ lbs/hr}$$

4. Dust from front-end loader is estimated using the following formula from AP-42 Section 11.2.3 which was developed for front end loaders dropping loads into open storage piles

$$E = k(0.0032) \frac{(u/5)^{1.3}}{(m/2)^{1.4}} \text{ lbs/ton}$$

E = emission factor

k = particle size multiplier (dimensionless)

u = mean wind speed (mph)

m = material moisture content (1.5%)

u = 2 mph because front end loader dumps inside a building

k = .35 for particles less than 10 micrometers

$$E = .35 (0.0032) \frac{(2/5)^{1.3}}{(1.5/2)^{1.4}} = .0005 \text{ lbs/ton}$$

So for our production rate

$$14,028 \text{ lbs/hr} \times \frac{1 \text{ ton}}{2000 \text{ lbs}} \times .0005 \text{ lbs/ton} = .0035 \text{ lbs/hr}$$

This seems much too low, so another method of estimating was investigated.

AP-42 Section 8.18 Table 8.18-1 says transfer and storage of phosphate rock produces 2 lbs/ton of uncontrolled particles

$$14,028 \text{ lbs/hr} \times \frac{1 \text{ ton}}{2000 \text{ lbs}} \times 2 \text{ lbs/ton} = 14.0 \text{ lbs/hr}$$

This value relates more closely to field observations so we'll use it.

5. AP-42 Section 8.15 Table 8.15-3 says uncontrolled fugitive emissions from loading pulverized limestone into open bed trucks is 1.5 lbs/ton. About 65% of the annual production of this plant is currently loaded into tank cars with large open hatches therefore this Emission Factor offers a general approximation of the conditions under which Kaolin is being loaded.

$$14,028 \text{ lbs/hr} \times 65\% \times \frac{1 \text{ ton}}{2000 \text{ lbs}} \times 1.5 \frac{\text{lbs}}{\text{ton}} = 6.83 \text{ lbs/hr}$$

3. Calculation of estimated emissions with baghouse in operation

Potential Emissions Collected by Dust Collection System

1.	Dust from Raymond Mill leaks	53.3 lbs/hr *
	Pick up efficiency	<u>0 %</u>
	Collected dust	0 lbs/hr
2.	Dust from cyclone scrubber system	479.7 lbs/hr
	Pick-up efficiency	<u>100 %</u>
	Collected dust	479.7 lbs/hr
3.	Dust from bagger	24.55 lbs/hr *
	Pick-up efficiency of hood	<u>80 %</u>
	Collected dust	19.64 lbs/hr
4.	Dust from front-end loader dump hopper	14 lbs/hr *
	Pick-up efficiency of hood	<u>90%</u>
	Collected dust	12.6 lb/hr
5.	Dust from rail car loading	6.83 lbs/hr
	Pick-up efficiency of dust loading spout	<u>100 %</u>
	Collected dust	6.83 lbs/hr
	Total Dust Collected	518.77 lbs/hr

Baghouse Efficiency = 99.5% (from manufacturer)  
= .5% passes through

$$518.77 \frac{\text{lbs}}{\text{hr}} \text{ collected dust} \times .5\% = 2.5938 \text{ lbs/hr baghouse emissions}$$

Fugitive dust which is not captured by the dust collection system \*

$$53.3 \text{ lbs/hr} + 20\% \text{ of } 24.55 \text{ lbs/hr} + 10\% \text{ of } 14.0 \text{ lbs/hr} = 59.61 \text{ lbs/hr}$$

\* Because the grinding and bagging operations are indoors (no wind) most (90%) of the dust settles out with-in a few feet of the machines.

$$10\% \text{ escapes to atmosphere} \times 59.61 \text{ lbs/hr} = 5.96 \text{ lbs/hr fugitive dust}$$

Hourly Emissions (with controls)

$$\text{fugitive dust } 5.96 \text{ lbs/hr} + \text{baghouse emissions } 2.59 \text{ lbs/hr} = 8.55 \text{ lbs/hr}$$

Annual Emissions (with controls)

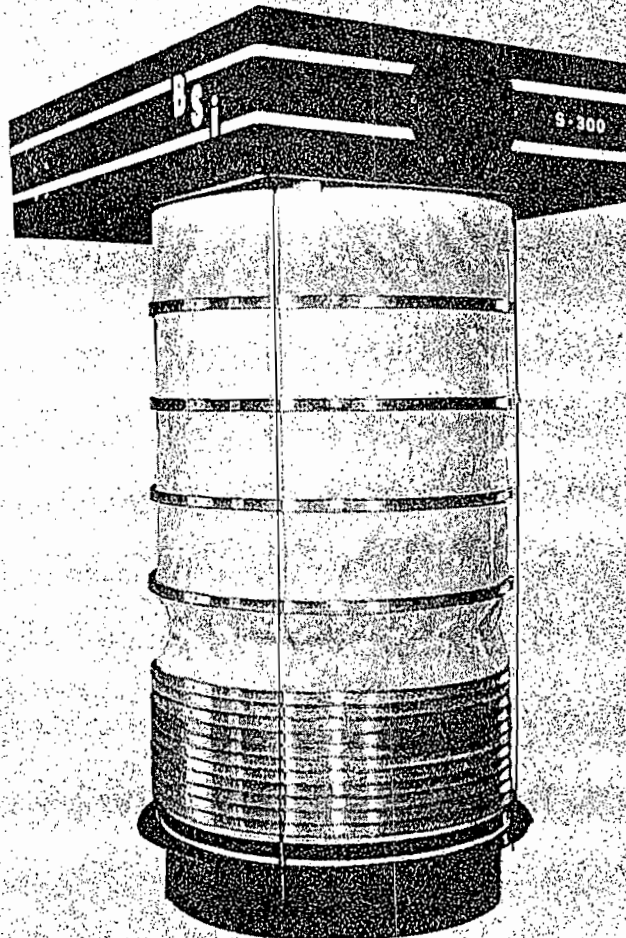
$$\frac{8736 \text{ hrs/yr} \times 8.55 \text{ lbs/hr}}{2000 \text{ lbs/ton}} = 37.34 \text{ tons/yr}$$

**B**AY  
**S**HORE  
**I**NDUSTRIES

**MANUFACTURERS OF INDUSTRIAL  
 BULK HANDLING EQUIPMENT**



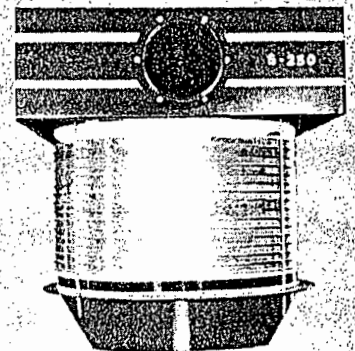
**BLOWER**



**RETRACTABLE SPOUT  
 (Open Loading)**

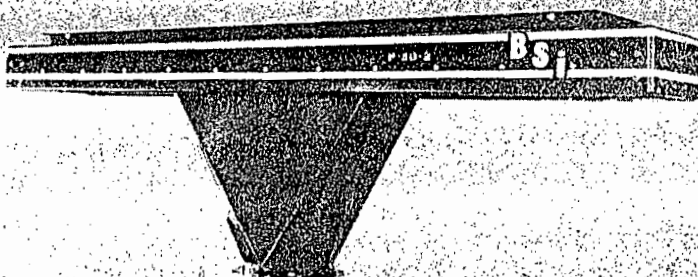


**AIR, HYD., ELEC. GATE**



**RETRACTABLE SPOUT  
 (Enclosed Loading)**

**SPOUT POSITIONER**



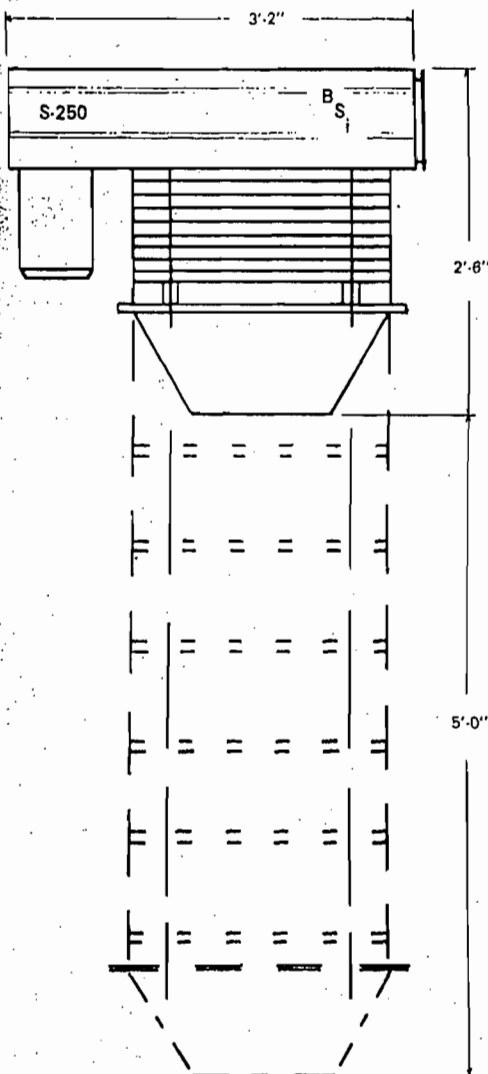
**AIR FLOW CONVEYOR**

**DIVISION OF BAY SHORE STEEL COMPANY :- Bay Shore, MI 49711 :- 616-347-1160**

The BSi model 250 will load dry or dusty products into enclosed railroad cars and trucks at a rate of up to 250 cu. ft. per minute, without releasing dust into the atmosphere. An exclusive four (4) cable lifting and ring stacking system prevents pinching or tearing of the collapsible outer sleeve, while maintaining the discharge end of the spout in a level position at all times.

"Contained flow design" insures that the product stream does not come in contact with the collapsible outer spout sleeve, causing premature wear. The stacking cones that come in contact with the product stream are constructed from abrasion resistant materials. Hard alloy or stainless steel cones are available as an option.

The model 250 is shipped fully assembled and ready for mechanical and electrical installation. Ducting into an 1000 c.f.m. air withdrawal source is required for proper dust control. Standard drive motors supplied are T.E.F.C. and are offered in all industrial voltages and phases. The totally enclosed gear reducer stops the drive at the upper and lower limits of travel by adjustable rotary limit switches. All electrical and drive components are easily accessible for maintenance.



**OPTIONAL MATERIALS**

- Heat resistant collapsible outer sleeve
- Cold weather resistant collapsible outer sleeve
- Stainless steel inner spout

**OPTIONAL ELECTRICAL ENCLOSURES**

- Explosion proof
- Chemical Duty

**OPTIONAL DRIVE MOTOR**

- Explosion proof
- Chemical duty

**ACCESSORIES**

- Automatic Level Sensor**  
Will provide a signal to stop the product feed when the desired level within the vehicle has been reached.
- Air Vibrators**  
Solenoid valve controlled air vibrators allow the operator to clean accumulated product from the spout discharge after loading.
- 3 Position Rotary Limit Switch**  
This switch allows the operator to select a midpoint limit in addition to the normal upper and lower spout limits. This can be useful when moving from hatch to hatch to eliminate the need to fully raise the spout to the upper limit.

**SERIES 250**

**MANUFACTURERS OF INDUSTRIAL BULK HANDLING EQUIPMENT**

Check Sheet

Company Name: *The Feldspar*  
Permit Number: *AC54-181147*  
PSD Number:  
County: *Putnam*  
Permit Engineer:  
Others involved:

Application:

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

Intent:

- Intent to Issue
- Notice to Public
- Technical Evaluation
- BACT Determination
- Unsigned Permit
- Correspondence with:
  - EPA
  - Park Services
  - County
  - Other
- Proof of Publication
- Petitions - (Related to extensions, hearings, etc.)
- Other

Final Determination:

- Final Determination
- Signed Permit
- BACT Determination
- Other

Post Permit Correspondence:

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