P 408 530 318

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Mr. K. D. Fetrow	
Street and No. P. O. Box 311	
P.O., State and ZIP Code Nichols, FL 33863	
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 5/31/83	

PS Form 3800, Feb. 1982

PS Form 3811, Jan. 1979

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1. The following service is requested (check one.)
   - [X] Show to whom and date delivered..... ¢
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   - [ ] RESTRICTED DELIVERY
     Show to whom and date delivered..... ¢
   - [ ] RESTRICTED DELIVERY.
     Show to whom, date, and address of delivery.$____

   (CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
   Mr. K. D. Fetrow
   P. O. Box 311
   Nichols, FL 33863

3. ARTICLE DESCRIPTION:

REGISTERED NO.	CERTIFIED NO.	INSURED NO.
	P408530318	

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐ Addressee ☒ Authorized agent

Francisca D. Hutchinson

4. DATE OF DELIVERY 6-3-83

POSTMARK NICHOLS, FL JUN 3 PM

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE:

CLERK'S INITIALS 33863

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

☆GPO : 1979-300-459

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

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

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

May 27, 1983

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. K. D. Fetrow, Manager of Manufacturing
P. O. Box 311
Nichols, Florida 33863

Dear Mr. Fetrow:

Enclosed is Permit Number AC 53-66785, dated May 26, 1983 to Mobil Chemical Company issued pursuant to Section 403, Florida Statutes.

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

Sincerely,

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

CHF/bjm

Enclosure

cc: R. W. McMaster, Mobil Chemical Company
Dan Williams, Southwest District

FINAL DETERMINATION

Mobil Chemical Company
Nichols, Polk County, Florida

Permit Number
AC 53-66785

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

May 12, 1983

FINAL DETERMINATION

Mobil Chemical Company's application for permit to install a baghouse on an existing calcined phosphate rock bin at their Nichols, Polk County, Florida phosphate rock preparation plant has been reviewed by the Bureau of Air Quality Management. Public Notice of the Department's intent to issue the permit was published in the Polk County Democrat on April 7, 1983.

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

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

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

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE: Mobil Chemical Co.
P. O. Box 311
Nichols, Florida
33863

Permit Number: AC 53-66785
Expiration Date: December 15, 1983
County: Polk
Latitude/Longitude: 27° 53' 20"N/
82° 01' 57"W
Project: Calcined Phosphate Rock Storage Bin 35-A loading baghouse

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

Installation of a Seneca Model 36-1 MTBV-6 Insertable baghouse, capable of handling 1200 CFM at 6.1 inches water gauge, on the calcined phosphate rock storage bin number 35-A to control particulate matter emissions from the bin while it is being loaded.

Bin 35-A is located at Mobil Chemical Company's phosphate rock preparation plant on Highway 676 in Nichols, Polk County, Florida. The UTM coordinates of the storage bin are 17-398.4 km E, 3085.14 km N.

Construction shall be in accordance with the application for permit to construct a Calcined Rock Storage Bin with Baghouse Collection System that was signed by Mr. R. W. McMaster on February 24, 1983.

PERMITTEE: Mobil Chemical Co.
P. O. Box 311
Nichols, FL
33863

I. D. Number:
Permit Number: AC 53-66785
Expiration Date: Dec. 15, 1983

GENERAL CONDITIONS:

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

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

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

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

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

GENERAL CONDITIONS:

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

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

a. Having access to and copying any records that must be kept under the conditions of the permit;

b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and

c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

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

a. a description of and cause of non-compliance; and

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

PERMITTEE: Mobil Chemical Co.
P. O. Box 311
Nichols, FL
33863

I. D. Number:
Permit Number: AC 53-66785
Date of Issue:
Expiration Date: Dec. 15, 1983

GENERAL CONDITIONS:

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

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

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

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

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

13. This permit also constitutes:

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

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

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

GENERAL CONDITIONS:

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

c. Records of monitoring information shall include:

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

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

SPECIFIC CONDITIONS:

1. Phosphate rock shall not be transferred to bin 35-A unless the emissions from the bin are treated by a permitted air pollution control device.

2. The maximum input of phosphate rock to bin 35-A shall not exceed 56 TPH.

3. Bin 35-A may be loaded full time, 8760 hours per year.

4. Maximum particulate matter emissions from the baghouse controlling loading of bin 35-A shall not exceed 0.41 lbs/hr as determined by DER Methods 1 through 5 described in 17-2.700(6), FAC. The baghouse shall be tested for particulate

SPECIFIC CONDITIONS:

matter emissions on request of the Department when there are reasons to believe the particulate matter standard is being violated.

5. Visible emissions from the baghouse serving bin 35-A shall not exceed five percent opacity as determined by DER Method 9 described in 17-2.700(6), FAC.

6. Visible emissions from any part of the bin or loading equipment shall not exceed 10 percent opacity as determined by DER Method 9 which is described in 17-2.700(6), FAC.

7. The baghouse, bin and loading equipment shall be tested for visible emissions before this construction permit expires and annually, thereafter.

8. The pressure drop across the baghouse will be measured each week the silo is loaded and records of this reading kept for two years for regulatory agency review.

9. The applicant will demonstrate compliance with the conditions of this construction permit and submit a complete application for an operating permit to the Southwest District prior to 90 days before the expiration date of this permit, or 60 days after the baghouse is placed in operation, whichever comes first. The applicant may continue to operate in compliance with all terms of this construction permit until its expiration or until issuance of an operating permit.

10. Mobil Chemical Company shall modify operating permit AO 53-57102 for the storage building control device to eliminate bin 35-A before December 15, 1983.

PERMITTEE: Mobil Chemical Co.
P. O. Box 311
Nichols, FL
33863

I. D. Number:
Permit Number: AC 53-66785
Expiration Date: Dec. 15, 1983

SPECIFIC CONDITIONS:

Issued this 26 day of May, 1983

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

Victoria J. Tschinkel

VICTORIA J. TSCHINKEL, Secretary

____ pages attached.

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

For Routing To District Offices And/Or To Other Than The Addressee		
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
From: _____	Date: _____	
Reply Optional [ ]	Reply Required [ ]	Info. Only [ ]
Date Due: _____	Date Due: _____	

RECEIVED
MAY 24 1983
Office of the Secretary

TO: Victoria J. Tschinkel

FROM: Clair Fancy

DATE: May 24, 1983

SUBJ: Approval of Attached Air Construction Permit

Attached please find one Air Construction Permit for which the applicant is Mobil Chemical Company. The construction proposed is the installation of a baghouse on an existing calcined phosphate rock bin at their phosphate rock preparation plant in Nichols, Polk County, Florida.

Day 90, after which the permit would be issued by default, is July 14, 1983.

The Bureau recommends your approval and signature.

CF/pa

Attachment

Check Sheet

Company Name: MOBIL CHEMICAL CO
Permit Number: AC 53-166785
PSD Number:
Permit Engineer:

Application:

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

Cross References:

- [ ]
- [ ]
- [ ]

Intent:

- [x] Intent to Issue
- [x] Notice of Intent to Issue
- [x] Technical Evaluation
- [ ] BACT Determination
- [x] Unsigned Permit
- Correspondence with:
  - [ ] EPA
  - [ ] Park Services
  - [ ] Other
- [x] Proof of Publication
  - [ ] Petitions - (Related to extensions, hearings, etc.)
  - [ ] Waiver of Department Action
  - [ ] Other

Final Determination:

- [x] Final Determination
- [x] Signed Permit
- [ ] BACT Determination
  - [ ] Other

Post Permit Correspondence:

- [ ] Extensions/Amendments/Modifications
- [ ] Other

Mobil Chemical Company

PHOSPHORUS DIVISION

P.O. BOX 311
NICHOLS, FLORIDA 33863
TELEPHONE (813) 425-3011

April 13, 1983

Patty

Mr. C. H. Fancy
Deputy Chief, Bureau of Air
Quality Management
Department of Environmental Regulation
Twin Towers Office Building
2600 Blairstone Road
Tallahassee, FL 32301

DER
APR 18 1983
BAQM

Dear Mr. Fancy:

Re: Public Notice for Air
Permit AC53-66785

Attached is the affidavit of publication for the above referenced permit which appeared in the "Polk County Democrat" on April 7, 1983.

If you have any further questions, please advise.

Sincerely,

K. D. Fetrow
Manager of Manufacturing

AFFIDAVIT OF PUBLICATION

The Polk County Democrat

Published Semi-Weekly

Bartow, Polk County, Florida

Case No. _____

STATE OF FLORIDA
COUNTY OF POLK } ss.

Before the undersigned authority personally appeared _____

S. L. Frisbie IV, who on oath says that he is

Publisher of The Polk County Democrat, a newspaper published at Bartow, in Polk County, Florida; that the attached copy of advertisement, being a Notice of Proposed Action

in the matter of Mobil Chemical Company at their facility in Nichols, Florida.

in the _____ Court, was published in said newspaper

in the issues of Apr. 7, 1983

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

Signed _____

Sworn to and subscribed before me this 11th day of

April, 1983.

Shirley J Walker

Notary Public

My Commission Expires:
Notary Public, State of Florida at Large
My Commission Expires Oct. 30, 1984

SHIRLEY J. WALKER
NOTARY
PUBLIC
STATE OF FLORIDA

NOTICE OF PROPOSED AGENCY ACTION

The Department of Environmental Regulation gives notice of its intent to issue a permit to construct to Mobil Chemical Company at their facility in Nichols, Florida. The permit will allow the installation of a baghouse to control the dust emissions from an existing calcined phosphate rock bin.

The new baghouse will emit 1.8 TPY of particulate matter to the atmosphere. The impact of the particulate matter emission from the new baghouse are insignificant. A Best Available Control Technology determination was not required for this project.

A person who is substantially affected by the department's proposed permitting decision may request a hearing in accordance with Section 120.57, Florida Statutes, and Chapter 17-1 and 28-5, Florida Administrative Code. The request for hearing must be filed (received) in the Office of General Counsel of the department at 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32301, within (14) days of publication this notice. Failure to file a request for hearing within this time period shall constitute a waiver of any right such person may have to request a hearing under Section 120.57, Florida Statutes.

The Technical Evaluation and Preliminary Determination for the proposed projects is available for public inspection during normal business hours at the following locations:

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

Department of Environmental Regulation, Southwest District, 7601 Highway 301 N, Tampa, Florida 33610

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

Apr. 7, 1983—641

No. 0157998

RECEIPT FOR CERTIFIED MAIL

**NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL**

(See Reverse)

SENT TO
Mr. K. D. Fetrow

STREET AND NO.

P.O., STATE AND ZIP CODE

POSTAGE		$
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE	¢
OPTIONAL SERVICES	SPECIAL DELIVERY	¢
OPTIONAL SERVICES	RESTRICTED DELIVERY	¢
OPTIONAL SERVICES — RETURN RECEIPT SERVICE	SHOW TO WHOM AND DATE DELIVERED	¢
OPTIONAL SERVICES — RETURN RECEIPT SERVICE	SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
OPTIONAL SERVICES — RETURN RECEIPT SERVICE	SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
OPTIONAL SERVICES — RETURN RECEIPT SERVICE	SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES		$

POSTMARK OR DATE

3/25/83

PS Form 3800, Apr. 1976

PS Form 3811, Jan. 1979

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

SENDER: Complete items 1, 2, and 3.
Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)
   - ☒ Show to whom and date delivered..... ¢
   - ☐ Show to whom, date and address of delivery.... ¢
   - ☐ RESTRICTED DELIVERY
     Show to whom and date delivered..... ¢
   - ☐ RESTRICTED DELIVERY.
     Show to whom, date, and address of delivery.$ ____

   (CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
   Mr. K. D. Fetrow
   P. O. Box 311
   Nichols, FL 33863

3. ARTICLE DESCRIPTION:

REGISTERED NO.	CERTIFIED NO.	INSURED NO.
	0157998	

(Always obtain signature of addressee or agent)

I have received the article described above.

SIGNATURE ☐Addressee ☒Authorized agent

4. Yvonne Mobley
   DATE OF DELIVERY 3-28-83
   POSTMARK NICHOLS, FL MAR 28 PM 1983

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE: CLERK'S INITIALS

33863

☆GPO : 1979-300-459

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

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

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

March 25, 1983

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. K. D. Fetrow
Manager of Manufacturing
Mobil Chemical Company
Post Office Box 311
Nichols, Florida 33863

Dear Mr. Fetrow:

Attached is one copy of the Technical Evaluation and Preliminary Determination, and proposed permit for the installation of a baghouse at your existing facility in Nichols, Polk County, Florida.

Before final action can be taken on your proposed permit, you are required by Florida Administrative Code Rule 17-1.62(3) to publish the attached Notice of Proposed Agency Action in the legal advertising section of a newspaper of general circulation in Polk County no later than fourteen days after receipt of this letter. The department must be provided with proof of publication within seven days of the date the notice is published. Failure to publish the notice will be grounds for denial of the permit.

The Preliminary Determination and proposed permit constitute a proposed action of the department and is subject to administrative hearing under the provisions of Chapter 120, Florida Statutes, if requested within fourteen days from receipt of this letter. Any petition for hearing must comply with the requirements of Florida Administrative Code Rule 28-5.201 and be filed with the Office of General Counsel, Florida Department of Environmental Regulation, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32301. Failure to file a request for hearing within fourteen days shall constitute a waiver of your right to a hearing. Filing is deemed complete upon receipt by the Office of General Counsel.

Please submit, in writing, any comments which you wish to have considered concerning the department's proposed action to Bill Thomas of the Bureau of Air Quality Management.

Sincerely,

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

CHF/pa

Attachment

cc: Mr. R. W. McMaster, P.E., Mobil Chemical Company
Mr. Dan Williams, DER Southwest District

Technical Evaluation
and
Preliminary Determination

Mobil Chemical Company
Nichols, Polk County, Florida

Calcined Phosphate Rock Bin Baghouse
Proposed Permit Number AC 53-66785

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

March 25, 1983

Technical Evaluation and Preliminary Determination

Table of Contents

Notice of Proposed Agency Action

The Department of Environmental Regulation gives notice of its intent to issue a permit to construct to Mobil Chemical Company at their facility in Nichols, Florida. The permit will allow the installation of a baghouse to control the dust emissions from an existing calcined phosphate rock bin.

The new baghouse will emit 1.8 TPY of particulate matter to the atmosphere. The impact of the particulate matter emission from the new baghouse are insignificant. A Best Available Control Technology determination was not required for this project.

A person who is substantially affected by the department's proposed permitting decision may request a hearing in accordance with Section 120.57, Florida Statutes, and Chapter 17-1 and 28-5, Florida Administrative Code. The request for hearing must be filed (received) in the Office of General Counsel of the department at 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32301, within (14) days of publication this notice. Failure to file a request for hearing within this time period shall constitute a waiver of any right such person may have to requests a hearing under Section 120.57, Florida Statutes.

The Technical Evaluation and Preliminary Determination for the proposed projects is available for public inspection during normal business hours at the following locations:

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

Department of Environmental Regulation
Southwest District
7601 Highway 301 N
Tampa, Florida 33610

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

RULES OF THE ADMINISTRATIVE COMMISSION
MODEL RULES OF PROCEDURE
CHAPTER 28-5
DECISIONS DETERMINING SUBSTANTIAL INTERESTS

28-5.15 Requests for Formal and Informal Proceedings

(1) Requests for proceedings shall be made by petition to the agency involved. Each petition shall be printed typewritten or otherwise duplicated in legible form on white paper of standard legal size. Unless printed, the impression shall be on one side of the paper only and lines shall be double spaced and indented.

(2) All petitions filed under these rules should contain:

(a) The name and address of each agency affected and each agency's file or identification number, if known;

(b) The name and address of the petitioner or petitioners;

(c) All disputed issues of material fact. If there are none, the petition must so indicate;

(d) A concise statement of the ultimate facts alleged, and the rules, regulations and constitutional provisions which entitle the petitioner to relief;

(e) A statement summarizing any informal action taken to resolve the issues, and the results of that action;

(f) A demand for the relief to which the petitioner deems himself entitled; and

(g) Such other information which the petitioner contends is material.

I. PROJECT DESCRIPTION

A. Applicant

Mobil Chemical Company
P. O. Box 311
Nichols, Florida 33863

B. Project and Location

Calcined phosphate rock produced at Mobil Chemical Company's phosphate rock preparation plant, located on Highway 676 in Nichols, Polk County, Florida, is transferred to a calcined rock storage bin (No. 35-A) by a belt conveyor and a bucket elevator. The dusty air displaced from the bin by this rock is presently collected and cleaned in the existing storage building dust collector operated under permit AO 53-57102. The Company proposes to modify the existing storage bin so that the present dust collection system will not be used to clean the displaced air. A new baghouse will be installed on the bin to clean any air displaced by the rock being transferred to it.

C. Process and Controls

Phosphate rock is transferred to the storage bin at a rate of up to 56 TPH. The air displaced by the rock entering the bin contains dust. The Company proposes to install a Seneca Model 36-1 MTBV-6 insertable baghouse on the storage bin to remove the dust before discharging the displaced air to the atmosphere. Over 99.6 percent of the dust will be removed by the baghouse allowing only 0.41 lbs/hr, of emission or 1.80 TPY based on full time operation (8760 hrs/hr).

II. RULE APPLICABILITY

A. State Regulations

The proposed project, installation of a baghouse on bin No. 35-A used for calcined phosphate rock storage, and disconnecting the bin from the existing storage building dust collection system, is subject to preconstruction review under the provisions of Chapter 403, FS, and Chapter 17-2, FAC.

The plant site is in an area designated "Unclassifiable" for the criteria pollutant particulate matter (17-2.430), but it is located in the area of influence of the Hillsborough County Particulate Matter Nonattainment Area (17-2.410). The area is designated attainment for the other criteria pollutants (17-2.420).

The plant is a major emitting facility for PM. Particulate matter is the only criteria pollutant emitted from the proposed calcined phosphate rock storage bin baghouse.

The PM emissions from the proposed source are less than the significant emission rate listed in Table 500-2 of Chapter 17-2, FAC. Therefore, the source is exempted from review under Chapter 17-2.500, Prevention of Significant Deterioration (PSD).

Scanning models show the impact of the PM emissions from the plant, including the proposed bin baghouse, on the Hillsborough County Particulate Matter Nonattainment Area will be less than 5 ug/m^3, 24 hour. Therefore, the modification is exempt from 17-2.510, New Source Review for Nonattainment Areas, since the PM emissions from the plant will not cause a significant impact on the nonattainment area.

The project will be reviewed and permitted under Rule 17-2.520, Sources Not Subject to Prevention of Significant Deterioration or Nonattainment Requirements, because it is subject to Rule 17-2.210, Permit Required.

B. Federal Regulations

This project is not subject to federal PSD regulations, Section 52.21 of Title 40 of the Code of Federal Regulations (40 CFR 52.21), because the modification to the major facility does not result in a significant net emission increase of any criteria pollutant.

III. SUMMARY OF EMISSIONS

A. Emission Limitations

The maximum PM emission from the new calcined rock storage bin No. 35-A baghouse will be 0.41 lbs/hr or, based on full time operation of 8760 hrs/yr, 1.80 TPY. The emission estimate for the proposed baghouse is based on a conservative engineering design efficiency of 99.6 percent. Because PM emission rates of this magnitude are difficult to measure accurately, the Department will assign the source an alternate emission standard of no visible emission (less than 5 percent opacity) as authorized by 17-2.700(1)(d)6 to show compliance with permit limitations.

IV. CONCLUSION

Based on a review of the data submitted by Mobil Chemical Company, FDER concludes that the Company can install and operate a baghouse on the calcined phosphate rock storage bin 35-A in compliance with all applicable state regulations. The General and Specific Conditions listed in proposed permit AC 53-66785 (attached) will assure compliance of the source with all applicable air pollution control regulations.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

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

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE: Mobil Chemical Co.
P. O. Box 311
Nichols, Florida
33863

Permit Number: AC 53-66785
Expiration Date: December 15, 1983
County: Polk
Latitude/Longitude: 27° 53' 25"N/
82° 01' 56"W
Project: Calcined Phosphate Rock Storage Bin 35-A loading baghouse

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

Installation of a Seneca Model 36-1 MTBV-6 Insertable baghouse, capable of handling 1200 CFM at 6.1 inches water gauge, on the calcined phosphate rock storage bin number 35-A to control particulate matter emissions from the bin while it is being loaded.

Bin 35-A is located at Mobil Chemical Company's phosphate rock preparation plant on Highway 676 in Nichols, Polk County, Florida. The UTM coordinated of the storage bin are 17-398.4 km E, 3085.3 km N.

Construction shall be in accordance with the application for permit to construct a Calcined Rock Storage Bin with Baghouse Collection System that was signed by Mr. R. W. McMaster on February 24, 1983.

PERMITTEE: Mobil Chemical Co.
P. O. Box 311
Nichols, FL
33863

I. D. Number:
Permit Number: AC 53-66785
Expiration Date: Dec. 15, 1983

GENERAL CONDITIONS:

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

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

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

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

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

GENERAL CONDITIONS:

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

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

a. Having access to and copying any records that must be kept under the conditions of the permit;

b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and

c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

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

a. a description of and cause of non-compliance; and

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

PERMITTEE: Mobil Chemical Co.
P. O. Box 311
Nichols, FL
33863

I. D. Number:
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Date of Issue:
Expiration Date: Dec. 15, 1983

GENERAL CONDITIONS:

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

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

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

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

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

13. This permit also constitutes:

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

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

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

GENERAL CONDITIONS:

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

c. Records of monitoring information shall include:

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

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

SPECIFIC CONDITIONS:

1. Phosphate rock shall not be transferred to bin 35-A unless the emissions from the bin are treated by a permitted air pollution control device.

2. The maximum input of phosphate rock to bin 35-A shall not exceed 56 TPH.

3. Bin 35-A may be loaded full time, 8760 hours per year.

4. Maximum particulate matter emissions from the baghouse controlling loading of bin 35-A shall not exceed 0.41 lbs/hr as determined by DER Methods 1 through 5 described in 17-2.700(6), FAC. The baghouse shall be tested for particulate

SPECIFIC CONDITIONS:

matter emissions on request of the Department when there are reasons to believe the particulate matter standard is being violated.

5. Visible emissions from the baghouse serving bin 35-A shall not exceed five percent opacity as determined by DER Method 9 described in 17-2.700(6), FAC.

6. Visible emissions from any part of the bin or loading equipment shall not exceed 10 percent opacity as determined by DER Method 9 which is described in 17-2.700(6), FAC.

7. The baghouse, bin and loading equipment shall be tested for visible emissions before this construction permit expires and annually, thereafter.

8. The pressure drop across the baghouse will be measured each week the silo is loaded and records of this reading kept for two years for regulatory agency review.

9. The applicant will demonstrate compliance with the conditions of this construction permit and submit a complete application for an operating permit to the Southwest District prior to 90 days before the expiration date of this permit, or 60 days after the baghouse is placed in operation, whichever comes first. The applicant may continue to operate in compliance with all terms of this construction permit until its expiration or until issuance of an operating permit.

10. Mobil Chemical Company shall modify operating permit AO 53-57102 for the storage building control device to eliminate bin 35-A before December 15, 1983.

PERMITTEE: Mobil Chemical Co.
P. O. Box 311
Nichols, FL
33863

I. D. Number:
Permit Number: AC 53-66785
Expiration Date: Dec. 15, 1983

SPECIFIC CONDITIONS:

Issued this ___ day of_____, 1983

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

_____
VICTORIA J. TSCHINKEL, Secretary

____ pages attached.

SHOLTES & KOOGLER, ENVIRONMENTAL CONSULTANTS
1213 N.W. 6th Street Gainesville, Florida 32601 (904) 377-5822

SKEC 282-82-06

DER

MAR 21 1983

BAQM

March 16, 1983

Mr. K. T. Mathews
Mobil Chemical Company
Post Office Box 311
Nichols, Florida 33863

Subject: Impact of Particulate Matter Emissions from Mobil Nichols Plant on Hillsborough County Particulate Matter Non-Attainment Area

Dear Kay:

I have revised the air quality analysis which was prepared to evaluate the impact of particulate matter emissions from the Mobil Nichols plant on the Hillsborough County particulate matter non-attainment area. The revisions take into consideration the emissions from the proposed calciner bin 35-A and the elimination of emissions from the No. 3 rock dryer. The emissions from the No. 3 rock dryer were eliminated in accordance with specific permit condition No. 10 in the recently issued permit AC53-62021 for the calcined rock cooler.

The elimination of emissions from the No. 3 rock dryer result in a decrease in particulate matter emissions from the Nichols plant of 20.2 pounds per hour. The proposed emission increase resulting from calciner bin 35-A will be 0.41 pounds per hour. Since there was a net decrease in particulate matter emissions, I revised the air quality review that I prepared for you on November 17, 1982 rather than to conduct a full air quality review. The revisions involved selecting two of the critical sets of meteorological data from the output of the November 17, 1982 modeling, revising the particulate matter emission rates to reflect the elimination of emissions from the No. 3 rock dryer and the addition of emissions from the proposed calciner bin, and inputting the revised emissions and the meteorological data into the PTMTPW air quality model to calculate the particulate matter impacts at the boundary of the non-attainment area.

Mobil Chemical Company

PHOSPHORUS DIVISION

P.O. BOX 311
NICHOLS, FLORIDA 33863
TELEPHONE (813) 425-3011

March 16, 1983

Mr. Willard Hanks
Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301-8241

Re: Construction Application for Mobil Chemical Company
Dry Rock Storage Facility - To Install Small Bag
House Type Collector in Calciner Bin 35-A

Dear Mr. Hanks:

The following information is being submitted as per your telephone request of March 9, 1983.

1. Attached is the complete air model for the total Mobil Chemical Company Nichols Preparation Complex including the proposed Calciner Bin 35-A Project.
2. SENECA Environmental Products Inc., drawing No. W 838633-1 which shows the design detail and specification for the Model 36-IMTSBV-6 type bag house proposed for this project.
3. The permitted particulates emission for Permit No. AO-53-57102 is 40 pounds per hour.

If any further information is required, please advise.

K. T. Matthews

KTM:gl

Attachmmant

SHOLTES & KOOGLER, ENVIRONMENTAL CONSULTANTS
1213 N.W. 6th Street Gainesville, Florida 32601 (904) 377-5822

SKEC 282-82-06

March 16, 1983

Mr. K. T. Mathews
Mobil Chemical Company
Post Office Box 311
Nichols, Florida 33863

Subject: Impact of Particulate Matter Emissions from Mobil Nichols Plant on Hillsborough County Particulate Matter Non-Attainment Area

Dear Kay:

I have revised the air quality analysis which was prepared to evaluate the impact of particulate matter emissions from the Mobil Nichols plant on the Hillsborough County particulate matter non-attainment area. The revisions take into consideration the emissions from the proposed calciner bin 35-A and the elimination of emissions from the No. 3 rock dryer. The emissions from the No. 3 rock dryer were eliminated in accordance with specific permit condition No. 10 in the recently issued permit AC53-62021 for the calcined rock cooler.

The elimination of emissions from the No. 3 rock dryer result in a decrease in particulate matter emissions from the Nichols plant of 20.2 pounds per hour. The proposed emission increase resulting from calciner bin 35-A will be 0.41 pounds per hour. Since there was a net decrease in particulate matter emissions, I revised the air quality review that I prepared for you on November 17, 1982 rather than to conduct a full air quality review. The revisions involved selecting two of the critical sets of meteorological data from the output of the November 17, 1982 modeling, revising the particulate matter emission rates to reflect the elimination of emissions from the No. 3 rock dryer and the addition of emissions from the proposed calciner bin, and inputting the revised emissions and the meteorological data into the PTMTPW air quality model to calculate the particulate matter impacts at the boundary of the non-attainment area.

The particulate matter emission rates input to the air quality model are summarized in Table 1. The meteorological data selected for evaluation were from Day 347, 1972 and Day 309, 1974. The receptors used in the air quality model are shown in Figure 1.

The results of the air quality modeling show that the maximum 24-hour impact expected at the non-attainment area boundary with meteorology from Day 347, 1972 will be 4.4 micrograms per cubic meter compared with 4.7 micrograms per cubic meter reported in my letter to you of November 17, 1982. The impact of particulate matter emissions at the non-attainment area boundary when meteorology from Day 309, 1974 were input to the air quality model was 4.5 micrograms per cubic meter compared to a previously calculated impact of 4.6 micrograms per cubic meter. In both cases, the maximum 24-hour impact of emissions from the proposed calciner bin was 0.01 micrograms per cubic meter; an insignificant impact.

The minimal impact of the proposed emissions from the calciner bin indicates that even if the No. 3 rock dryer is not shut down immediately, the calciner bin can be constructed without emissions from the Nichols plant resulting in a significant impact of the boundary in the non-attainment area.

If you have any questions regarding these data, please do not hesitate to contact me.

Very truly yours,

SHOLTES & KOOGLER
ENVIRONMENTAL CONSULTANTS, INC.

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

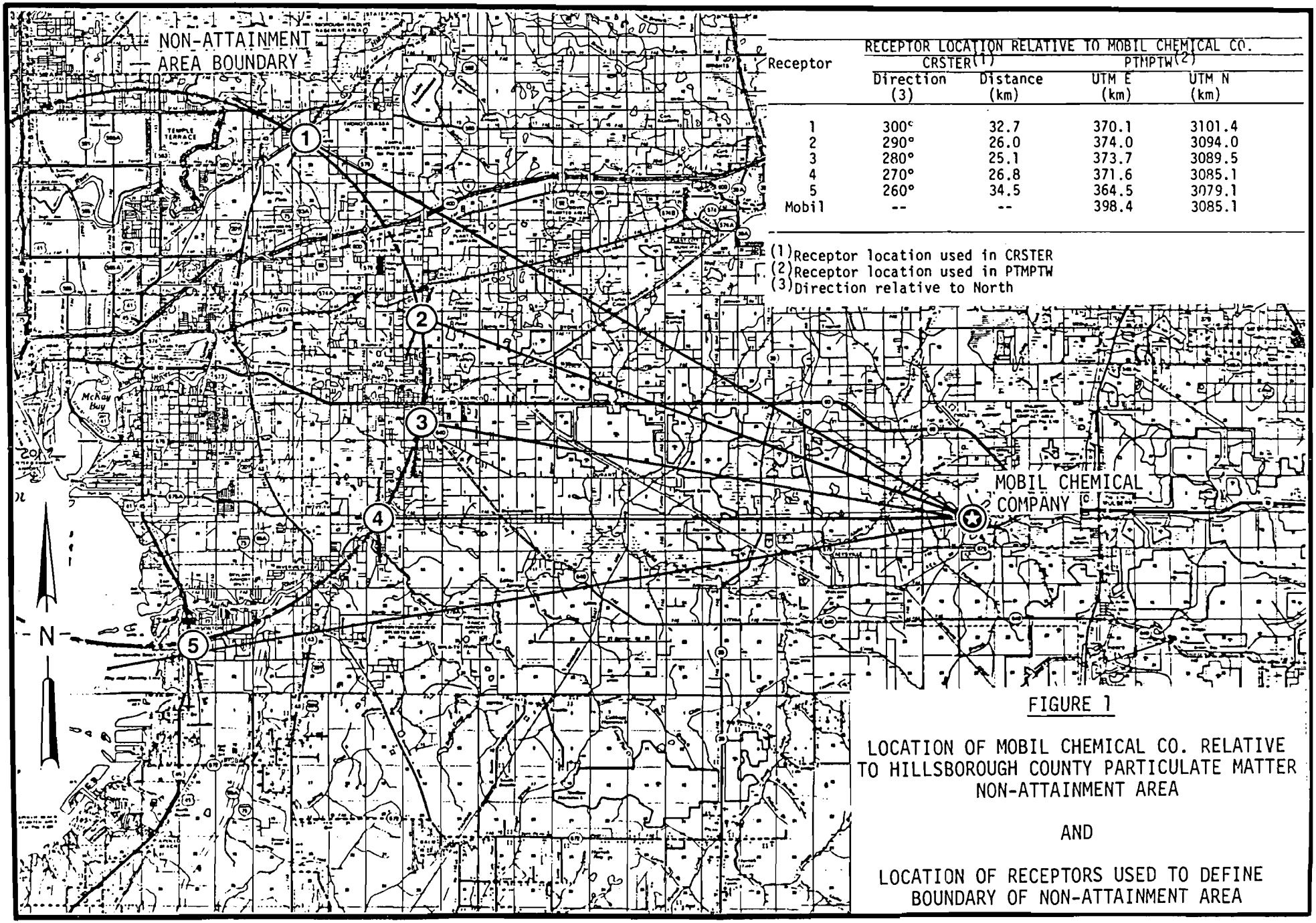
JBK:ldh
Enclosures

TABLE 1

PARTICULATE MATTER SOURCE DATA

MOBIL CHEMICAL COMPANY
NICHOLS, FLORIDA

Source	Particulate Matter Emissions (lb/hr)	(g/sec)	Stack Parameters Ht (m)	Dia (m)	Vel (m/sec)	Temp (°K)	Source Location UTM E (km)	UTM N (km)
Calciner	32.4	4.08	30.5	1.09	19.3	339	398.41	3085.21
Dryer 1	38.1	4.80	25.9	2.28	12.7	344	398.48	3085.12
Dryer 2	38.1	4.80	25.9	2.28	12.7	344	398.52	3085.14
Dryer 4	28.5	3.59	25.9	2.28	16.2	339	398.16	3085.04
Rock Storage	40.0	5.04	25.9	1.68	23.5	315	398.31	3085.20
Mills 1 & 2	28.0	3.53	24.4	0.48	12.0	327	398.35	3085.18
Mills 3 & 4	28.0	3.53	24.4	0.48	18.0	323	398.40	3085.16
Rock Loadout	33.0	4.16	25.9	1.52	13.9	315	398.31	3085.10
Truck Loadout	0.9	0.11	12.2	0.50	12.0	314	398.40	3085.10
Calcined Rock Cooler	12.0	1.51	18.3	1.07	11.8	320	398.43	3085.18
Calciner Bin 35-A	0.41	0.05	25.9	0.30	9.31	316	398.37	3085.14



Receptor	RECEPTOR LOCATION RELATIVE TO MOBIL CHEMICAL CO. CRSTER(1) Direction (3)	CRSTER(1) Distance (km)	PTMPTW(2) UTM E (km)	PTMPTW(2) UTM N (km)
1	300°	32.7	370.1	3101.4
2	290°	26.0	374.0	3094.0
3	280°	25.1	373.7	3089.5
4	270°	26.8	371.6	3085.1
5	260°	34.5	364.5	3079.1
Mobil	--	--	398.4	3085.1

(1) Receptor location used in CRSTER
(2) Receptor location used in PTMPTW
(3) Direction relative to North

FIGURE 1

LOCATION OF MOBIL CHEMICAL CO. RELATIVE TO HILLSBOROUGH COUNTY PARTICULATE MATTER NON-ATTAINMENT AREA

AND

LOCATION OF RECEPTORS USED TO DEFINE BOUNDARY OF NON-ATTAINMENT AREA

SCHOLTES & KOOGLER

AVERAGE CONCENTRATIONS (UG/M**3) AND PERCENT CONTRIBUTIONS FOR 24 HOURS

RECEPTORS	1.		2.		3.		4.		5.		6.	
SOURCE NAME	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.
Calciner	0.19	11.40	0.00	10.76	0.50	11.03	0.00	9.23	0.00	8.87	0.0	0.0
Dryer 1	0.20	11.91	0.00	13.44	0.51	11.18	0.00	14.08	0.00	15.31	0.0	0.0
Dryer 2	0.20	12.24	0.00	13.14	0.51	11.32	0.00	13.19	0.00	14.41	0.00	0.00
Dryer 4	0.12	6.98	0.00	11.48	0.34	7.38	0.00	14.25	0.00	13.86	0.01	99.92
Dry Rock Storage	0.24	14.12	0.00	14.08	0.64	14.15	0.00	12.26	0.00	11.26	0.0	0.0
Mills #1 & #2	0.21	12.56	0.00	9.96	0.60	13.11	0.00	9.18	0.00	8.70	0.0	0.0
Mills #3 & #4	0.21	12.48	0.00	9.95	0.58	12.84	0.00	9.63	0.00	9.53	0.0	0.0
Dry Rock Loadout	0.20	11.75	0.00	12.34	0.56	12.28	0.00	13.58	0.00	13.51	0.00	0.08
Truck Loadout	0.01	0.50	0.00	0.36	0.02	0.53	0.00	0.41	0.00	0.41	0.0	0.0
Calciner Cooler	0.10	5.89	0.00	4.35	0.27	5.97	0.00	4.04	0.00	3.99	0.0	0.0
Calciner Bin 35-A	0.00	0.18	0.00	0.14	0.01	0.19	0.00	0.14	0.00	0.14	0.0	0.0
TOTAL CONCENTRATION (UG/M**3)												
	1.67		0.02		4.54		0.00		0.00		0.01	

TCP OUTPUT CHARGE: $ .03

STACK HEIGHT ADJUSTMENT = 0.0

* * * S O U R C E D A T A * * *

SOURCE NAME	EMM. RATE (G/SEC)	STACK HT. (M)	STACK TEMP. (DEG-K)	EXIT VEL. (M/SEC)	STACK DIA. (M)	VOL. FLOW (M**3/SEC)	X-COORD. (KM)	Y-COORD. (KM)
Calciner	4.08	30.5	339.0	19.30	1.09	0.	398.410	3085.210
Dryer 1	4.80	25.9	344.0	12.70	2.28	0.	398.480	3085.120
Dryer 2	4.80	25.9	344.0	12.70	2.28	0.	398.520	3085.140
Dryer 4	3.59	25.9	339.0	16.20	2.28	0.	398.160	3085.040
Dry Rock Storage	5.04	25.9	315.0	23.50	1.68	0.	398.310	3085.200
Mills #1 & #2	3.53	24.4	327.0	12.00	0.48	0.	398.350	3085.180
Mills #3 & #4	3.53	24.4	323.0	18.00	0.48	0.	398.400	3085.160
Dry Rock Loadout	4.16	25.9	315.0	13.90	1.52	0.	398.310	3085.100
Truck Loadout	0.11	12.2	314.0	12.00	0.50	0.	398.400	3085.100
Calciner Cooler	1.51	18.3	320.0	11.80	1.07	0.	398.430	3085.180
Calciner Bin 35-A	0.05	25.9	316.0	9.31	0.30	0.	398.370	3085.140

* * * R E C E P T O R S * * *

NO.	X(KM)	Y(KM)	Z(KM)
1.	370.100	3101.400	0.0
2.	374.000	3094.000	0.0
3.	373.700	3089.500	0.0
4.	371.600	3085.100	0.0
5.	364.500	3079.100	0.0
6.	398.400	3085.100	0.0

* * * M E T E O R O L O G Y * * *

	WIND DIR. (DEG)	WIND VEL. (M/SEC)	STABILITY CLASS	MIX.HT. (M)	AMB.TEMP. (DEG-K)	PRESS. (MB)
1.	109.	2.06	6	1681.	293.	1000.00
2.	69.	3.09	6	1685.	291.	1000.00
3.	76.	2.57	6	1689.	291.	1000.00
4.	87.	2.57	6	1692.	291.	1000.00
5.	90.	2.57	6	1696.	291.	1000.00
6.	89.	3.09	6	1700.	291.	1000.00
7.	86.	3.09	6	1704.	291.	1000.00
8.	90.	3.60	5	185.	292.	1000.00
9.	87.	3.60	4	442.	295.	1000.00
10.	116.	4.63	3	700.	298.	1000.00
11.	119.	5.14	3	958.	299.	1000.00
12.	149.	4.12	3	1216.	301.	1000.00
13.	140.	5.14	4	1473.	302.	1000.00
14.	145.	4.12	4	1731.	303.	1000.00
15.	132.	4.12	3	1731.	303.	1000.00
16.	129.	4.63	3	1731.	302.	1000.00
17.	122.	4.12	4	1731.	300.	1000.00
18.	123.	2.57	5	1722.	300.	1000.00
19.	107.	2.57	5	1701.	299.	1000.00
20.	130.	3.09	5	1681.	299.	1000.00
21.	119.	5.66	4	1661.	298.	1000.00
22.	125.	5.14	5	1641.	297.	1000.00
23.	132.	5.14	5	1620.	296.	1000.00
24.	125.	4.12	5	1600.	296.	1000.00

AVERAGE CONCENTRATIONS (UG/M**3) AND PERCENT CONTRIBUTIONS FOR 24 HOURS

RECEPTORS	1.		2.		3.		4.		5.		6.	
SOURCE NAME	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.
Calciner	0.07	10.53	0.27	11.56	0.00	8.29	0.49	11.06	0.00	12.28	0.0	0.0
Dryer 1	0.08	13.01	0.27	11.66	0.00	12.95	0.52	11.74	0.00	10.76	0.0	0.0
Dryer 2	0.08	12.70	0.28	12.06	0.00	11.71	0.52	11.83	0.00	11.04	0.00	100.00
Dryer 4	0.07	11.34	0.16	6.68	0.00	16.01	0.37	8.24	0.00	7.63	0.0	0.0
Dry Rock Storage	0.09	14.21	0.34	14.37	0.00	12.11	0.63	14.29	0.01	16.26	0.0	0.0
Mills #1 & #2	0.06	10.31	0.30	12.81	0.00	9.58	0.55	12.34	0.00	12.85	0.0	0.0
Mills #3 & #4	0.06	10.23	0.30	12.61	0.00	9.89	0.54	12.07	0.00	11.77	0.0	0.0
Dry Rock Loadout	0.08	12.51	0.27	11.58	0.00	14.63	0.54	12.13	0.00	11.17	0.0	0.0
Truck Loadout	0.00	0.40	0.01	0.50	0.00	0.48	0.02	0.49	0.00	0.41	0.0	0.0
Calciner Cooler	0.03	4.62	0.14	5.99	0.00	4.20	0.25	5.64	0.00	5.64	0.0	0.0
Calciner Bin 35-A	0.00	0.15	0.00	0.18	0.00	0.15	0.01	0.17	0.00	0.16	0.0	0.0
TOTAL CONCENTRATION (UG/M**3)												
	0.63		2.35		0.00		4.43		0.03		0.00	

TCP OUTPUT CHARGE: $ .03

STACK HEIGHT ADJUSTMENT = 0.0

* * * S O U R C E D A T A * * *

SOURCE NAME	EMM. RATE (G/SEC)	STACK HT. (M)	STACK TEMP. (DEG-K)	EXIT VEL. (M/SEC)	STACK DIA. (M)	VOL. FLOW (M**3/SEC)	X-COORD. (KM)	Y-COORD. (KM)
Calciner	4.08	30.5	339.0	19.30	1.09	0.	398.410	3085.210
Dryer 1	4.80	25.9	344.0	12.70	2.28	0.	398.480	3085.120
Dryer 2	4.80	25.9	344.0	12.70	2.28	0.	398.520	3085.140
Dryer 4	3.59	25.9	339.0	16.20	2.28	0.	398.160	3085.040
Dry Rock Storage	5.04	25.9	315.0	23.50	1.68	0.	398.310	3085.200
Mills #1 & #2	3.53	24.4	327.0	12.00	0.48	0.	398.350	3085.180
Mills #3 & #4	3.53	24.4	323.0	18.00	0.48	0.	398.400	3085.160
Dry Rock Loadout	4.16	25.9	315.0	13.90	1.52	0.	398.310	3085.100
Truck Loadout	0.11	12.2	314.0	12.00	0.50	0.	398.400	3085.100
Calciner Cooler	1.51	18.3	320.0	11.80	1.07	0.	398.430	3085.180
Calciner Bin 35-A	0.05	25.9	316.0	9.31	0.30	0.	398.370	3085.140

* * * R E C E P T O R S * * *

NO.	X(KM)	Y(KM)	Z(KM)
1.	370.100	3101.400	0.0
2.	374.000	3094.000	0.0
3.	373.700	3089.500	0.0
4.	371.600	3085.100	0.0
5.	364.500	3079.100	0.0
6.	398.400	3085.100	0.0

METEOROLOGY

	WIND DIR. (DEG)	WIND VEL. (M/SEC)	STABILITY CLASS	MIX.HT. (M)	AMB.TEMP. (DEG-K)	PRESS. (MB)
1.	119.	2.06	6	1766.	293.	1000.00
2.	100.	2.06	6	1761.	293.	1000.00
3.	99.	2.06	6	1757.	293.	1000.00
4.	150.	2.57	6	1752.	293.	1000.00
5.	137.	2.06	6	1748.	293.	1000.00
6.	131.	2.57	6	1743.	292.	1000.00
7.	129.	3.09	5	49.	293.	1000.00
8.	137.	3.09	4	286.	294.	1000.00
9.	135.	3.60	3	523.	296.	1000.00
10.	120.	3.09	2	760.	299.	1000.00
11.	162.	3.60	2	997.	301.	1000.00
12.	205.	4.12	3	1234.	301.	1000.00
13.	189.	4.63	3	1471.	301.	1000.00
14.	236.	3.60	2	1708.	302.	1000.00
15.	210.	3.60	3	1708.	302.	1000.00
16.	228.	5.14	4	1708.	301.	1000.00
17.	238.	4.12	4	1708.	300.	1000.00
18.	234.	3.60	5	1703.	298.	1000.00
19.	246.	2.06	6	1690.	297.	1000.00
20.	239.	1.54	7	1676.	295.	1000.00
21.	236.	1.00	7	1662.	294.	1000.00
22.	237.	1.00	7	1649.	294.	1000.00
23.	238.	1.00	7	1635.	293.	1000.00
24.	239.	1.00	7	1621.	293.	1000.00

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

For Routing To District Offices
And/Or To Other Than The Addressee

To: _____ Loctn.: _____
To: _____ Loctn.: _____
To: _____ Loctn.: _____
From: _____ Date: _____

Reply Optional [ ] Reply Required [x] Info. Only [ ]
Date Due: _____ Date Due: _____

DER
MAR 07 1983
BAQM

TO: Clair Fancy

FROM: Bill Thomas BT/rm

DATE: March 3, 1983

Attached are four copies of Mobil Chemical's application, and $100.00 application fee check, to construct a small bag house on their calcined phosphate rock bin 35-A; for CAPS processing.

BT/rm

MOBIL CHEMICAL COMPANY
PHOSPHORUS DIVISION
MANAGERS ACCOUNT
STATE ROAD 676
NICHOLS, FL 33863

5748

FEB. 25, 19 83

63-122
631

PAY TO THE ORDER OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION $ *100.00

ONE HUNDRED AND NO/100 ---------- DOLLARS

FLAGSHIP STATE BANK OF POLK COUNTY
Mulberry Office
Mulberry, Florida 33860

FOR PERMIT

[redacted]

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

No. 33654

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Mobil Chemical Company Date March 4, 1983

Address P.O. Box 311, Nichols, FL 33863 Dollars $ 100.00

Applicant Name & Address Same as above

Source of Revenue

Revenue Code 0101 Application Number AC 53-166985

By Patricia G. Adams

CERTIFIED MAIL #P209-[redacted]-908
RETURN RECEIPT REQUESTED

Mobil Chemical Company

PHOSPHORUS DIVISION

P.O. BOX 311
NICHOLS, FLORIDA 33863
TELEPHONE (813) 425-3011

DER

MAR 7 1983

BAQM

February 22, 1983

D.E.R.
MAR 4 1983
SOUTHWEST DISTRICT
TAMPA

Mr. Dan Williams
Florida Department of Environmental Regulation
7601 Highway 301 North
Tampa, FL 33610

Re: Construction Application for Mobil Chemical Co. Dry Rock Loading Facility - To Install Small Baghouse Type Collector in Calciner Bin 35-A

Dear Mr. Williams:

Enclosed is an application for permit to construct an emission control device to control fugitive emission from the Mobil Chemical Company Dry Rock Storage Building in the Calciner Bin 35-A.

The fugitive dust is now being collected and cleaned under Permit No. A053-57102; this permit is for the total storage building. The proposed system modifies Calciner Bin 35-A where the present dust collection will not be utilized to collect dust at this point, a bin baghouse will handle the cleaning of all air exiting this bin. The reason for this modification is to create greater control on the fugitive dust and to utilize the total air flow on Permit A053-57102 to a greater advantage.

Also enclosed is a check for $100 to cover the application fee of the permit.

If you have any questions, please advise.

Sincerely,

K T Matthews

K T. Matthews
Sr. Environmental Engineer

/jm
Encl.

AC

AC 53-66785

DER

MAR 7 1983

BAQM

D.E.R.

MAR 4 1983

TAMPA

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Calcined Rock Storage Bin 35-A [X] New[1] [ ] Existing[1]

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

COMPANY NAME: Mobil Chemical Company COUNTY: Polk

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peeking Unit No. 2, Gas Fired) Calcined Rock Storage Bin, with Baghouse Collection System

SOURCE LOCATION: Street Highway 676 City Nichols

UTM: East 17-398.4 North 3085.1

Latitude ____ ° ____ ' ____ "N Longitude ____ ° ____ ' ____ "W

APPLICANT NAME AND TITLE: K. D. Fetrow, Manager of Manufacturing

APPLICANT ADDRESS: P. O. Box 311 Nichols, FL 33863

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Mobil Chemical Company

I certify that the statements made in this application for a new - 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: K. D. Fetrow

K. D. Fetrow, Manager of Manufacturing
Name and Title (Please Type)

Date: _____ Telephone No. (813) 425-3011

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 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.

(Affix Seal)

Signed: R. W. McMaster

R. W. McMaster
Name (Please Type)

Mobil Chemical Company
Company Name (Please Type)

P. O. Box 311 Nichols, FL 33863
Mailing Address (Please Type)

Florida Registration No. 17260 Date: 2/24/83 Telephone No. (813) 425-3011

[1]See Section 17-2.02(15) and (22), Florida Administrative Code, (F.A.C.)

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.

Rock from the calciner is being transferred at the present time to Bin No.35-A and the fugitive dust is being collected and cleaned under Permit No. A053-57102. Calciner Bin 35-A will be modified where the present dust collection system will not be utilized to collect dust at this point, but a bin baghouse will handle the cleaning of all air exiting this bin. The reason for this modification is to create greater control on the fugitive dust and to utilize the total air flow on Permit No. A053-57102 to a greater advantage.

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

Start of Construction One (1) week after permit is granted Completion of Construction 10 weeks from permit approval

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.)

1. Major Equipment	$4,500	5. Engineering and Contingency	$1,500
2. Structure	1,500		
3. Labor	1,500	TOTAL	$11,500
4. Piping and Elect.	2,500		

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

None

E. Is this application associated with or part of a Development of Regional Impact (DRI) pursuant to Chapter 380, Florida Statutes, and Chapter 22F-2, Florida Administrative Code? ____ Yes X No

F. Normal equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ; if power plant, hrs/yr ____ ; if seasonal, describe: N/A

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

1. Is this source in a non-attainment area for a particular pollutant? No
   a. If yes, has "offset" been applied? *Model has been conducted showing that "offset" is not req'd. Total plant under the 5 ug/m^3 No*
   b. If yes, has "Lowest Achievable Emission Rate" been applied? No
   c. If yes, list non-attainment pollutants.
2. Does best available control technology (BACT) apply to this source? If yes, see Section VI. **Baghouse type collector is BACT for this application. No**
3. Does the State "Prevention of Significant Deterioration" (PSD) requirements apply to this source? If yes, see Sections VI and VII. ***A model was run by S/K for this unit & the Nichols complex. Model & results are attached. No***
4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source? No
5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? No

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

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

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
Phosphate Rock	Dust	Varies	112,000	A

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

1. Total Process Input Rate (lbs/hr): 112,000

2. Product Weight (lbs/hr): Approximately same as above

C. Airborne Contaminants Emitted:

Name of Contaminant	Emission[1]		Allowed Emission[2] Rate per Ch. 17-2, F.A.C.	Allowable[3] Emission lbs/hr	Potential Emission[4]		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/hr	T/yr	
Particulate	0.206*	0.90*		32.96	102.8	450	B
	0.411**	1.80**					
*This is the	calculated emission rate based on designed efficiency						
**Due to dust	loading, instead of using design efficiency for basis of 0.206						#/Hr

increase to 0.411 #/Hr and 1.80 Ton/Year

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles[5] Size Collected (in microns)	Basis for Efficiency (Sec. V, It[5]
Seneca Model				
36-1 MTBV-6	Dust	99.8%*		
Insertable, with		99.6%**		
1200 CFM @ 6.1" wg fan				

[1] See Section V, Item 2.

[2] Reference applicable emission standards and units (e.g., Section 17-2.05(6) Table II, E. (1), F.A.C. – 0.1 pounds per million BTU heat input)

[3] Calculated from operating rate and applicable standard

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

[5] If Applicable

E. Fuels N/A This unit collects fugitive dust while Bin 35-A is being filled. No fuel is utilized in this operation

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

*Units Natural Gas, MMCF/hr; Fuel Oils, barrels/hr; Coal, lbs/hr N/A

Fuel Analysis:

Percent Sulfur: _____ Percent Ash: _____

Density: _____ lbs/gal Typical Percent Nitrogen: _____

Heat Capacity: _____ BTU/lb _____ BTU/gal

Other Fuel Contaminants (which may cause air pollution): _____

F. If applicable, indicate the percent of fuel used for space heating. Annual Average N/A Maximum _____

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

No liquid waste will be generated from this unit.

No solid waste will be generated from this unit, the dust removed will be placed back into Bin 35-A

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

Stack Height: 6' above roof 78.5' above ground ft. Stack Diameter: 0.196 ft.

Gas Flow Rate: 1449 ACFM Gas Exit Temperature: 110 °F.

Water Vapor Content: 10 % Velocity: 123 FPS

SECTION IV: INCINERATOR INFORMATION

N/A

Type of Waste	Type O (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq & Gas By-prod.)	Type VI (Solid By-prod.)
Lbs/hr Incinerated							

Description of Waste _____

Total Weight Incinerated (lbs/hr) _____ Design Capacity (lbs/hr) _____

Approximate Number of Hours of Operation per day _____ days/week _____

Manufacturer _____

Date Constructed _____ Model No. _____

	Volume $(ft)^3$	Heat Release (BTU/hr)	Fuel		Temperature (^oF)
			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.):

SECTION V: SUPPLEMENTAL REQUIREMENTS

N/A

Please provide the following supplements where required for this application.

1. Total process input rate and product weight — show derivation.
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, 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 8½" 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 8½" 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 8½" 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. An application fee of $20, unless exempted by Section 17-4.05(3), F.A.C. 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

N/A

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:
5. Useful Life:
6. Operating Costs:
7. Energy:
8. Maintenance Cost:
9. Emissions:

Contaminant	Rate or Concentration

*Explain method of determining D 3 above.

N/A

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*: d. Capital Cost:

e. Useful Life: f. Operating Cost:

g. Energy*: 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*: d. Capital Cost:

e. Useful Life: f. Operating Cost:

g. Energy**: h. Maintenance Costs:

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:

*Explain method of determining efficiency.

**Energy to be reported in units of electrical power – KWH design rate.

3.

a. Control Device:

b. Operating Principles:

c. Efficiency*: d. Capital Cost:

e. Life: f. Operating Cost:

g. Energy: h. Maintenance Cost:

*Explain method of determining efficiency above.

N/A

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*:

d. Capital Cost:

e. Life:

f. Operating Cost:

g. Energy:

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*:

3. Capital Cost:

4. Life:

5. Operating Cost:

6. Energy:

7. Maintenance Cost:

8. Manufacturer:

9. Other locations where employed on similar processes:

a.

(1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

*Explain method of determining efficiency above.

(7) Emissions*:

Contaminant	Rate or Concentration

(8) Process Rate*:

b.

(1) Company:

(2) Mailing Address:

(3) City:

(4) State:

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

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions*:

Contaminant	Rate or Concentration

(8) Process Rate*:

10. Reason for selection and description of systems:

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

N/A

SECTION VII – PREVENTION OF SIGNIFICANT DETERIORATION

A. Company Monitored Data

1. _____ no sites _____ TSP _____ ( ) SO^2* _____ Wind spd/dir

Period of monitoring ___/___/___ (month day year) to ___/___/___ (month day year)

Other data recorded _____

Attach all data or statistical summaries to this application.

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 ___/___/___ (month day year) to ___/___/___ (month day year)

2. Surface data obtained from (location) _____

3. Upper air (mixing height) data obtained from (location) _____

4. Stability wind rose (STAR) data obtained from (location) _____

C. Computer Models Used

1. _____ Modified? If yes, attach description.

2. _____ Modified? If yes, attach description.

3. _____ Modified? If yes, attach description.

4. _____ Modified? If yes, attach description.

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

D. Applicants Maximum Allowable Emission Data

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

E. Emission Data Used in Modeling

Attach list of emission sources. Emission data required is source name, description on 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.

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

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.

MOBIL CHEMICAL COMPANY

CALCINER ROCK STORAGE BIN 35-A

Process Input Rate

The filling rate of this bin of calciner rock is 56 tons/hr (112,000 #/hr) based on calciner throughput.

Based on past designed information of 10 grain SCFM and air displacement of 1200 SCFM, the following uncontrolled particulate emission rate can be:

$$\text{Inlet} \quad \frac{10 \times 1200 \times 60 \times 24 \times 365}{7000} = \frac{901{,}000\#}{2000} = 450.5 \text{ tons/yr}$$

$$\frac{901{,}000 \text{ \#/yr}}{8760} = 102.8 \text{ \#/hr}$$

Efficiency Estimation

The efficiency estimation is based on the design of 0.02 gr/cf and on the permit request 0.04 gr/cf.

1. 0.02 gr/cf

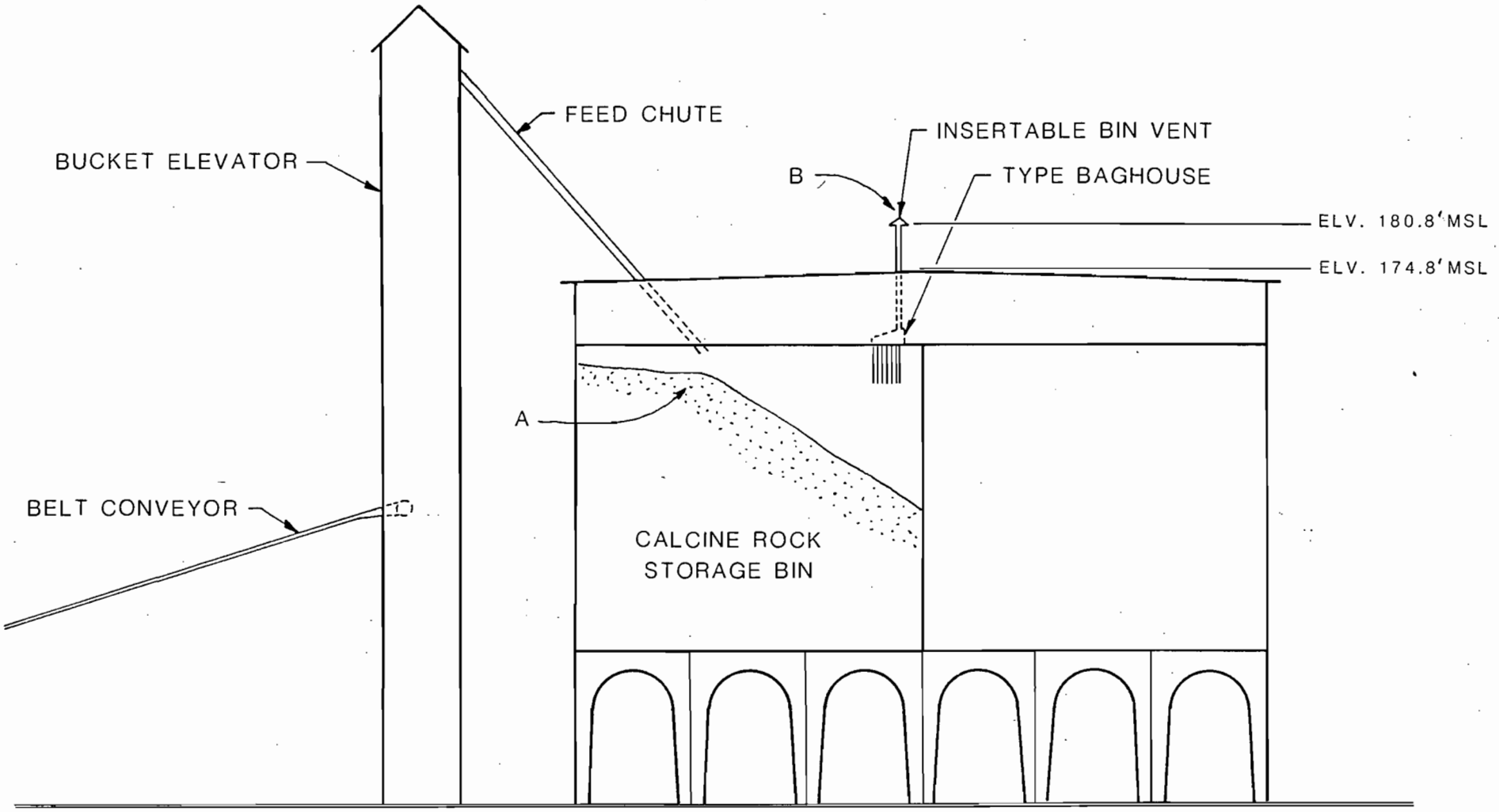
$$\text{Outlet} = \frac{0.02 \times 1200 \times 60 \times 24 \times 365}{7000} = \frac{1802 \text{ \#/yr}}{2000} = 0.90 \text{ tons/yr}$$

$$\frac{1802 \text{ \#/yr}}{8760} = \frac{0.206 \text{ \#/hr}}{102.8 \text{ \#/hr}} = 99.8\% \text{ Efficiency}$$

2. 0.04 gr/cf

$$\text{Outlet} = \frac{0.04 \times 1200 \times 60 \times 24 \times 365}{7000} = \frac{3604 \text{ \#/yr}}{2000} = 1.80 \text{ tons/yr}$$

$$\frac{3604 \text{ \#/yr}}{8760} = \frac{0.411 \text{ \#/hr}}{102.8 \text{ \#/hr}} = 99.6\% \text{ Efficiency}$$



Calcine bin baghouse 35A.

State of Florida

Department of State

I certify from the records of this office that MOBIL CHEMICAL CORPORATION, is a corporation organized under the laws of the State of Delaware, authorized to transact business within the State of Florida, qualified on March 7, 1966.

The charter number for this corporation is 819418.

I further certify that said corporation has filed all annual reports and paid all annual report filing fees due this office through December 31, 1982, and its status is active.

Given under my hand and the Great Seal of the State of Florida, at Tallahassee, the Capital, this the 13th day of August, 1982.

George Firestone
Secretary of State

CER 101

MOC P/A NO. 1528

POWER OF ATTORNEY

Know all men by these presents: That MOBIL OIL CORPORATION, a corporation organized and existing under the laws of the State of New York, and having an address at Post Office Box 311, Nichols, Florida 33863, hereinafter called the "COMPANY", does hereby confirm that K. D. FETROW is an authorized representative of said COMPANY, and otherwise is the COMPANY'S true and lawful attorney in fact and representative for it, and in its name, place and stead is authorized to do any and all acts and things necessary, in the name of the COMPANY, or in the name of its MOBIL CHEMICAL COMPANY operating division, to prepare and file applications, requests or other documents required or appropriate to obtain permits, authorizations, approvals, licenses, or other instruments with any federal, state or other department, bureau, office, agency, authority, or unit thereof, required for or incidental to the COMPANY'S present or future phosphate mines and related facilities, located in Polk or Hardee Counties, Florida, and to procure any such permit, authorization, approval, license, or other instrument from any such governmental or other agency or authority.

HEREBY GIVING AND GRANTING unto said attorney in fact full power and authority to do and perform all and every act or thing necessary or incidental to the proper exercise of the powers herein specified, as fully to all intents and purposes that the COMPANY or its officers or directors might or could do if personally present, and hereby ratifying and confirming all actions by said attorney as described above.

This Power of Attorney shall remain in effect until revoked in writing by the COMPANY.

IN WITNESS WHEREOF, the COMPANY has caused this instrument to be executed by a duly authorized officer and its corporate seal to be hereunto affixed and attested by an Assistant Secretary in the presence of the undersigned witnesses, this 7th day of January, 1982.

MOBIL OIL CORPORATION

By: _____
Vice President W. A. BURK

Attest:

_____
Assistant Secretary
G. G. GARNEY

Witnesses:

_____
FRED TYSON

_____