

No. 0157899
 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	\$		
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE	¢	
	OPTIONAL SERVICES	SPECIAL DELIVERY	¢
		RESTRICTED DELIVERY	¢
	RETURN RECEIPT SERVICE	SHOW TO WHOM AND DATE DELIVERED	¢
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
	SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	¢	
TOTAL POSTAGE AND FEES		\$	
POSTMARK OR DATE		1/13/83	

PS Form 3811, Jan. 1979

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.
 0157899
 (Always obtain signature of addressee or agent)

I have received the article described above.
 SIGNATURE Addressee Authorized agent
Suzanne Jenkins

4. DATE OF DELIVERY
 1-17-83

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE

POSTMARK
 NICHOLS, FL
 JAN 17 PM
 CLERK'S INITIALS
 33863

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

☆ GPO : 1979-300-459

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



BOB GRAHAM
GOVERNOR

Victoria J. Tschinkel
SECRETARY

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

January 12, 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:

Enclosed is Permit Number AC 53-61218, dated January 10, 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 Chief
Bureau of Air Quality
Management

CHF/pa

Enclosure

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

FINAL DETERMINATION

Mobil Chemical's construction permit application for installation of a baghouse collection system at their existing dry rock truck loading facility in Polk County, Florida, has been reviewed by the Bureau of Air Quality Management. Public notice of the Department's Intent to Issue the construction permit was published in the Polk County Democrat on December 2, 1982.

Copies of the preliminary determination were available for public inspection at the Department's Southwest District office and the Bureau of Air Quality Management.

There were no letters of response as a result of the public notice period.

The final action of the Department will be to issue the permit as noticed in the public review process.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

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

PERMIT/CERTIFICATION
NO. AC53-61218

COUNTY: Polk

PROJECT: 5000 CFM
BAG Collector System

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

For the installation of a 5000 CFM Bag collector system located at Mobil Chemical Company complex in Polk County, Florida. The UTM coordinates all 398.1 km East and 3085.05 km North.

Construction shall be accordance with the attached permit application, and plans, documents and drawings except as otherwise noted on page 3, "Specific Conditions".

Attachement:

Application to Construct Air Pollution Sources, DER Form 17-1.122 (16).

PERMIT NO.: AC53-61218
APPLICANT: Mobil Chemical Company
P. O. Box 311
Nichols, Florida 33863

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions", and as such are binding upon the permittee and enforceable pursuant to the authority of Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.
3. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information: (a) a description of and cause of non-compliance; and (b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.
4. As provided in subsection 403.087(6), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.
5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.
6. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.111, F.S.
7. In the case of an operation permit, permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or department rules.
8. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant, or aquatic life or property and 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, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.
9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.
10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.
11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.
12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
13. This permit also constitutes:
 - Determination of Best Available Control Technology (BACT)
 - Determination of Prevention of Significant Deterioration (PSD)
 - Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

PERMIT NO.: AC53-61218
APPLICANT: Mobil Chemical Company

SPECIFIC CONDITIONS:

1. The maximum emission rate for the 5000 CFM bag collector system shall not exceed 1.71 lb/hr and 4.76 ton/yr.
2. The unit shall be allowed to operate continuously (8736 hours per year).
3. Before this construction permit expires, the unit will be tested for particulate matter and visible emission. Except as provided under 40 CFR 60.8(b), the performance tests shall be in accordance with the provisions of the following reference methods in Appendix A of 40 CFR 60.
 - a. Method 1. Sample and Velocity Traverses.
 - b. Method 2. Volumetric Flow Rate.
 - c. Method 3. Gas Analysis.
 - d. Method 5. Particulate matter.
 - e. Method 9. Visible emission.

Test results will be the average of 3 valid runs. The Department will be notified 30 days in advance of the compliance test. The test will be conducted at 90 to 100% capacity.

4. Visible emissions shall not exceed 5% opacity.
5. Reasonable precautions to prevent fugitive particulate emissions during construction such as coating or spraying roads and construction sites used by contractors will be taken by the applicant.
6. The applicant shall report any delays in construction and completion of this unit to the Department's Southwest District Office.
7. The applicant will demonstrate compliance with the conditions of the construction permit, and submit a complete application for an operating permit to the Department's Southwest District Office prior to 90 days of the expiration date of the construction permit. The applicant may continue to operate in compliance with all terms of the construction permit until its expiration date or issuance of an operating permit.
8. Upon obtaining an operating permit, the applicant will be required to submit periodic test reports on the actual operation and emissions of the facility.
9. The source shall comply with the provisions and requirements of the attached general conditions.

PERMIT NO.: AC 53-61218
APPLICANT: Mobil Chemical Company

Expiration Date: August 30, 1983

Issued this 10 day of June, 1983

 Pages Attached.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

Tony Cole
Signature

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: _____	

TO: Victoria J. Tschinkel

FROM: Clair Fancy *Clair J. Fancy*

DATE: January 6, 1983

SUBJ: Approval and Signature of Attached *Office of the Secretary*
Air Construction Permit

RECEIVED

JAN 10 1983

Attached please find one Air Construction Permit for which the applicant is Mobil Chemical Company. The construction proposed is the installation of a baghouse collection system at Mobil's existing dry rock truck loading facility in Polk County, Florida.

Day 90, after which the permit would be issued by default, is January 21, 1983.

The Bureau recommends your approval and signature.

CF/pa

Attachment

Check Sheet

Company Name: MOBIL CHEMICAL COMPANY
Permit Number: AC53 - 061218
PSD Number: _____
Permit Engineer: _____

Application:

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

Cross References:

-
-
-

Intent:

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

Correspondence with:

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

Final Determination:

- Final Determination
- Signed Permit
- BACT Determination
- Other

Post Permit Correspondence:

- Extensions/Amendments/Modifications
- Other

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: _____	

TO: Clair Fancy *Bill*
FROM: Bill Thomas *WT*
DATE: December 14, 1982
SUBJECT: AC53-61218, Mobil Chemical Company
Preliminary Determination and Technical Evaluation

DER
DEC 22 1982
BAQM

The above referenced evaluation has been reviewed by Southwest District personnell, with no additional comments forthcoming.

BT/scm

Mobil Chemical Company

PHOSPHORUS DIVISION

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

December 7, 1982

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

DER
DEC 13 1982
BAQM

Dear Mr. Fancy:

Re: Public Notice for Air Permit AC 53-61218

Attached is the affidavit of publication for the above referenced permit which appeared in the "Polk County Democrat," December 2, 1982.

If you have any further questions, please advise.

Sincerely,



K. D. Fetrow
Manager of Manufacturing

/jm
Attach.

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 pub-

lished at Bartow, in Polk County, Florida; that the attached copy of

advertisement, being a Notice of Action

in the matter of Mobil Chemical Co.

in the _____ Court, was published in said newspaper

in the issues of Dec. 2, 1982

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 3rd day of

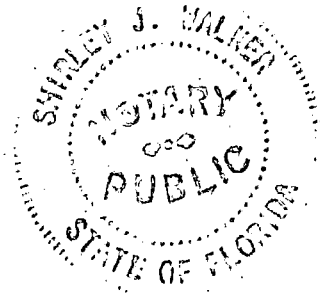
December, 19 82.

Shirley J. Walker

Notary Public

My Commission Expires:

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



NOTICE OF PROPOSED AGENCY ACTION

The Department of Environmental Regulation gives notice of its intent to issue a permit to Mobil Chemical Company to install a 5000 CFM baghouse collection system at their existing facility in Nichols, Polk County. A determination of Best Available Control Technology (BACT) was not required.

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 Chapters 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 fourteen (14) days of publication of 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 applications, technical evaluation and departmental intent are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the following locations:

- DER, Bureau of Air Quality Management, 2600 Blair Stone Road, Tallahassee, Florida 32301
- DER, Southwest District, 7601 Highway 301 North, Tampa, Florida 33610

Comments on this action shall be submitted in writing to Bill Thomas of the Tallahassee office within thirty (30) days of this notice.

Dec. 2, 1982-2034

No. 0157770

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

SENT TO		K. D. Fetrow
STREET AND NO.		P. O. Box 311
P.O., STATE AND ZIP CODE		Nichols, FL 33863
POSTAGE		\$
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE	¢
	SPECIAL DELIVERY	¢
	RESTRICTED DELIVERY	¢
	OPTIONAL SERVICES	
	RETURN RECEIPT SERVICE	
	SHOW TO WHOM AND DATE DELIVERED	¢
	SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
	SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
	SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES		\$
POSTMARK OR DATE		11/23/82

PS Form 3800, Apr. 1976

PS Form 3011, Jan. 1979

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
Post Office Box 311
Nichols, FL 33863

3. ARTICLE DESCRIPTION:
REGISTERED NO. | CERTIFIED NO. | INSURED NO.
| 0157770 |

(Always obtain signature of addressee or agent)

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

4. *Bobbie Jenkins*
DATE OF DELIVERY 11-29-82

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE: 1982 CLERK'S INITIALS

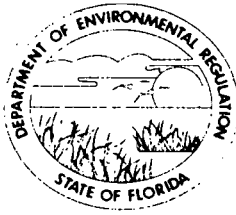
POSTMARK: NICHOLS, FL NOV 29 PM 1982

☆GPO : 1979-300-459

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

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

November 17, 1982

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 application, Technical Evaluation and Preliminary Determination, and proposed permit for the installation of a 5000 CFM baghouse collection system at Mobil Chemical Company's existing facility in Nichols, Florida.

Pursuant to Section 403.815, Florida Statutes, and Florida Administrative Code Rule 17-1.62, you are required to publish (at your own expense) the attached notice. This notice should be published, one time only, in the legal ad section of a newspaper of general circulation in the area of the proposed construction. The department, in accordance with Rule 17-1.62, is required to have proof that notice was given. Therefore, please have the newspaper prepare an affidavit of publication to submit to the department.

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

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

Preliminary Determination
and
Technical Evaluation

MOBIL CHEMICAL COMPANY
Truck Dry Rock Loadout, with Baghouse
Collection System

State Permit Number

AC 53-61218

Florida Department of Environmental Regulation
Bureau of Air Quality Management
Central Air Permitting
November 9, 1982

NOTICE OF PROPOSED AGENCY ACTION

The Department of Environmental Regulation gives notice of its intent to issue a permit to Mobil Chemical Company to install a 5000 CFM baghouse collection system at their existing facility in Nichols, Polk County. A determination of Best Available Control Technology (BACT) was not required.

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 Chapters 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 fourteen (14) days of publication of 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 applications, technical evaluation and departmental intent are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the following locations:

DER Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, Florida 32301

DER Southwest District
7601 Highway 301 North
Tampa, Florida 33610

Comments on this action shall be submitted in writing to Bill Thomas of the Tallahassee office within thirty (30) days of this notice.

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. SYNOPSIS OF APPLICATION

A. Name and Address of Applicant

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

B. Source Location

The proposed source is located on Highway 676 near the town of Nichols, Polk County, Florida. The UTM coordinates are Zone 17-398.1 km East and 3085.05 km North.

C. Project Description

The applicant proposes to install a baghouse collection system to control unconfined particulate matter emission from the existing dry rock truck loading facility at the Mobil Chemical Company complex.

II. RULE APPLICABILITY

The proposed project is subject to preconstruction review under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2 Florida Administrative Code. Specifically, the proposed project involves a minor source for particulate matter (PM). Potential emissions of PM are 4.76 tons per year.

The source is located in the area of influence of the Hillsborough County particulate nonattainment area.

The proposed source will be a minor modification for particulate matter (PM). Emissions of PM would result in no significant net emission increase of this pollutant as listed in Table 500-2 Regulated Air Pollutant Significant Emission Rates. Therefore, the proposed project is exempt from the provisions of section 17-2.500 FAC., Prevention of Significant Deterioration.

Due to the potential emissions totalling 4.76 tons per year, the proposed source is exempt from the NSR requirements for nonattainment areas pursuant to 17-2.510(2)2.b., Areas of Influence of Nonattainment Areas.

Since this control device (baghouse collection system) will be installed as a reasonable precaution to prevent unconfined emissions of particulate matter, the proposed project will be permitted under 17-2-610(3)(c)6., FAC., Unconfined Emissions of Particulate Matter.

The proposed source is also subject to provisions of section 17-2.520 FAC., Sources Not Subject to Prevention of Significant Deterioration or Nonattainment Requirements.

III. SOURCE IMPACT ANALYSIS

A. Emissions Limitations

The installation of the proposed 5000 CFM Baghouse control system will produce emissions of particulate matter to the atmosphere. The emissions from this source are as follows:

Pollutant	Controlled		Uncontrolled	
	lb/hr	ton/yr	lb/hr	ton/yr
PM	0.86	2.38 ⁽¹⁾	270	750
	1.71	4.76 ⁽²⁾		

- 1) Designed efficiency of 99.7% and 0.02 gr/dscf
- 2) Control efficiency of 99.4% and 0.04 gr/dscf, equivalent to RACT requirements.

B. Air Quality

An air quality analysis has been performed to evaluate the impact of the proposed project on ambient concentrations of particulate matter on the Hillsborough County particulate nonattainment area. Through the use of dispersion modeling, the analysis considered the impact of all particulate matter emitting sources within the Mobil complex.

Results of the analysis provide reasonable assurance that the project, as described in this permit and subject to the conditions herein, will not lead to any violation of ambient air quality standards.

IV. CONCLUSIONS

Based on review of the data submitted by Mobil Chemical Company, the FDER concludes that compliance with all applicable state air quality regulations will be achieved provided certain specific conditions are met. The impact of the emissions from this source will not cause or contribute to a violation of any ambient air quality standard.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

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

PERMIT/CERTIFICATION
NO. AC53-61218

COUNTY: Polk

PROJECT: 5000 CFM
BAG Collector System

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

For the installation of a 5000 CFM Bag collector system located at Mobil Chemical Company complex in Polk County, Florida. The UTM coordinates are 398.1 km East and 3085.05 km North.

Construction shall be in accordance with the attached permit application, and plans, documents and drawings except as otherwise noted on page 3, "Specific Conditions".

Attachment:

Application to Construct Air Pollution Sources, DER Form 17-1.122 (16).

PERMIT NO.: AC53-61218
APPLICANT: Mobil Chemical Company
P. O. Box 311
Nichols, Florida 33863

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions", and as such are binding upon the permittee and enforceable pursuant to the authority of Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.
3. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information: (a) a description of and cause of non-compliance; and (b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.
4. As provided in subsection 403.087(6), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.
5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.
6. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.111, F.S.
7. In the case of an operation permit, permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or department rules.
8. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant, or aquatic life or property and 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, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.
9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.
10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.
11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.
12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
13. This permit also constitutes:
 - Determination of Best Available Control Technology (BACT)
 - Determination of Prevention of Significant Deterioration (PSD)
 - Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

PERMIT NO.: AC53-61218
APPLICANT: Mobil Chemical Company

SPECIFIC CONDITIONS:

1. The maximum emission rate for the 5000 CFM bag collector system shall not exceed 1.71 lb/hr and 4.76 ton/yr.
2. The unit shall be allowed to operate continuously (8736 hours per year).
3. Before this construction permit expires, the unit will be tested for particulate matter and visible emission. Except as provided under 40 CFR 60.8(b), the performance tests shall be in accordance with the provisions of the following reference methods in Appendix A of 40 CFR 60.
 - a. Method 1. Sample and Velocity Traverses.
 - b. Method 2. Volumetric Flow Rate.
 - c. Method 3. Gas Analysis.
 - d. Method 5. Particulate matter.
 - e. Method 9. Visible emission.

Test results will be the average of 3 valid runs. The Department will be notified 30 days in advance of the compliance test. The test will be conducted at 90 to 100% capacity.

4. Visible emissions shall not exceed 5% opacity.
5. Reasonable precautions to prevent fugitive particulate emissions during construction such as coating or spraying roads and construction sites used by contractors will be taken by the applicant.
6. The applicant shall report any delays in construction and completion of this unit to the Department's Southwest District Office.
7. The applicant will demonstrate compliance with the conditions of the construction permit, and submit a complete application for an operating permit to the Department's Southwest District Office prior to 90 days of the expiration date of the construction permit. The applicant may continue to operate in compliance with all terms of the construction permit until its expiration date or issuance of an operating permit.
8. Upon obtaining an operating permit, the applicant will be required to submit periodic test reports on the actual operation and emissions of the facility.
9. The source shall comply with the provisions and requirements of the attached general conditions.

PERMIT NO.: AC 53-61218
APPLICANT: Mobil Chemical Company

Expiration Date: August 30, 1983

Issued this _____ day of _____, 19_____.

_____ Pages Attached.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

Signature

MOBIL CHEMICAL COMPANY
PHOSPHORUS DIVISION
MANAGERS ACCOUNT
NICHOLS, FLORIDA 33863

5478

SEPT. 30, 19 82 63-185
631

PAY TO THE ORDER OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

\$**100.00

ONE HUNDRED AND NO/100

DOLLARS



FLAGSHIP BANK
OF MULBERRY
MULBERRY, FLORIDA 33860

PERMIT

PARIS

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

NO. 33626

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Mobil Chemical Company Date October 9, 1982

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

Applicant Name & Address Same as above

Source of Revenue _____

Revenue Code 0101 Application Number AC 53-61218

By Patricia G. Adams

DEPARTMENT OF ENVIRONMENTAL REGULATION

ROUTING AND TRANSMITTAL SLIP

ACTION NO. *DER*
 ACTION DUE DATE *1982*

1. TO: (NAME, OFFICE, LOCATION)

Clair Fancy

INITIAL

DATE

2.

Control Air Permitting Section

INITIAL

DATE

3.

Bureau of Air Quality Management

INITIAL

DATE

4.

INITIAL

DATE

REMARKS:

RE: Mobil Chem. Company

Attached is a const. permit application to add controls on an existing truck loadout operation.

This action is being taken because of our notice to them that reasonable precautions to control unconfined emission was not being made.

We will furnish comments if requested.

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 & REPLY

INITIAL & FORWARD

DISTRIBUTE

CONCURRENCE

FOR PROCESSING

INITIAL & RETURN

FROM:

Don A. Williams

DATE

10-5-82

PHONE

Mobil Chemical Company

PHOSPHORUS DIVISION

DER

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

OCT 8 1982

September 29, 1982

BAQM

D.E.R.

OCT 1 1982

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

SOUTHWEST DISTRICT
TAMPA

Re: Construction Application for Mobil Chemical Co.
Truck Loadout Facility, to comply with the
annual air compliance verification inspection.

Dear Mr. Williams:

Enclosed is an application for permit to construct an emission control device to control fugitive emission from the Mobil Chemical Company Truck Loadout Facility. This emission control device is to be installed to comply with FDER annual air compliance verification inspection and does meet BACT for this type of operation. The fugitive emission will be reduced from an estimated 750 tons a year to less than 5 tons a year.

Also enclosed is a check for \$100 for the permit application.

If you have any questions, please advise.

Sincerely,

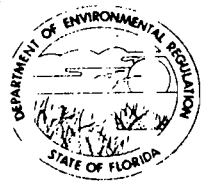


K. D. Fetrow
Manager of Manufacturing

/jm

Encl.

AC 3-61218



D.E.R.

OCT 1 1982

DER

OCT 8 1982

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT
TAMPA

BAQM

APPLICATION TO OPERATE/CONSTRUCT
AIR POLLUTION SOURCES

SOURCE TYPE: Dry Rock Loadout (Truck System) New¹ Existing¹

APPLICATION TYPE: 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) Truck Dry Rock Loadout, with Baghouse Collection System

SOURCE LOCATION: Street Highway 676 City _____

UTM: East 17 - 398.1 North 3085.05

Latitude _____ ° _____ ' _____ "N Longitude _____ ° _____ ' _____ "W

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

APPLICANT ADDRESS: P. O. Box 311, Nichols, Florida 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: [Signature]
K. D. Fetrow, Manager of Manufacturing
Name and Title (Please Type)

Date: 9/29/82 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.

Signed: [Signature]
R. W. McMaster
Name (Please Type)

Mobil Chemical Company

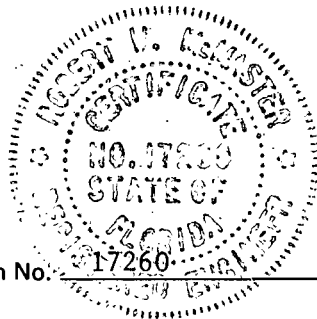
Company Name (Please Type)

P. O. Box 311, Nichols, FL 33863

Mailing Address (Please Type)

Date: 9/29/82 Telephone No. (813) 425-3011

(Affix Seal)



Florida Registration No. 17260

¹See 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.

Dry rock will be transferred by means of conveyor to the truck dry rock loadout tank, then loaded into closed hopper trucks. (1) The fugitive dust will be collected by a forced draft vent system from the transfer point discharge into the bin; bin vent; and loading spout into truck, then (2) through a bag collector to atmosphere.

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

Start of Construction 1 week after permit is granted. Completion of Construction 27 weeks

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	52,600	(5) Engineering & Contingency	23,000
(2) Structural	5,200		
(3) Labor	74,200	TOTAL	175,000
(4) Piping and Elect.	20,000		

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

The July 23, 1981 inspection by the Department of Environmental Regulation noted the following: "The truck loadout system has no controls and in our opinion, this does not constitute reasonable precaution to prevent fugitive emissions."

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 No

F. Normal equipment operating time: hrs/day 16 ; days/wk 6.95 ; wks/yr 50 ; 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 required. Total Plant under the 5 ug/m³ 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 and 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	360,000	A

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

- Total Process Input Rate (lbs/hr): 360,000
- 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	0.86*	2.38*		38.6#/hr	270	750	D
	1.71*	4.76**					
*This is the calculated emission rate based on designed efficiency							
**Due to the total amount of fugitive emissions reduction, instead of using design efficiency for basis of 0.86#/hr increase to 1.71 #/hr and 4.76 t/yr.							

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 121 -				
IMT - 8 reverse jet				
dust collector - temp.	Dust	99.7		*
control - w/two "Mid-		99.4		**
West"Model C-22 Loading				
Spouts				

¹See Section V, Item 2. *Basis - on manufacturer's specifications and by checking on installed units that apply to this operation.

²Reference 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)

³Calculated from operating rate and applicable standard

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

⁵If Applicable

E. Fuels N/A This unit collects fugitive dust during the movement of dried rock and loading. 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 the loading bin.

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

Stack Height: 15 ft. Stack Diameter: 1.42 ft.

Gas Flow Rate: 5000 ACFM Gas Exit Temperature: Ambient + 23° F °F.

Water Vapor Content: Ambient % Velocity: 50 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 (°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.):

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: | 4. Capital Costs: |
| 2. Operating Principles: | 6. Operating Costs: |
| 3. Efficiency: * | 8. Maintenance Cost: |
| 5. Useful Life: | |
| 7. Energy: | |
| 9. Emissions: | |

Contaminant	Rate or Concentration
_____	_____
_____	_____
_____	_____
_____	_____

*Explain method of determining D 3 above.

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.

- 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

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
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>

(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.

MOBIL CHEMICAL COMPANY

DRY ROCK LOADOUT (TRUCK)

Process Input Rate

The Loadout rate for dry rock through this system has been 180 T/hr (360,000 #/hr) based on the past four years experience. All material shipped from this unit is weighed by certified scales.

Based on an EPA developed emission factor of 1.5 pounds of uncontrolled particulate matter per ton of dry phosphate rock loaded, the following uncontrolled particulate emission rate can be established:

The average yearly loading rate based on four years experience for the unit is one million tons per year.

$$1,000,000 \times 1.5 = \frac{1,500,000}{2000} = 750 \text{ tons/year}$$

Time utilization of this unit is 24 hours/day, 7 days/week, but averages 16 hours/day, 6.93 days/week, and 50 weeks/year.

$$\frac{1,500,000}{6.944 \times 16 \times 50} = 270 \text{ pounds/hour}$$

Efficiency Estimation

The Efficiency estimation is based on the designed ef of 0.02 ug/CF and on the permit request of 0.04 ug/CF.

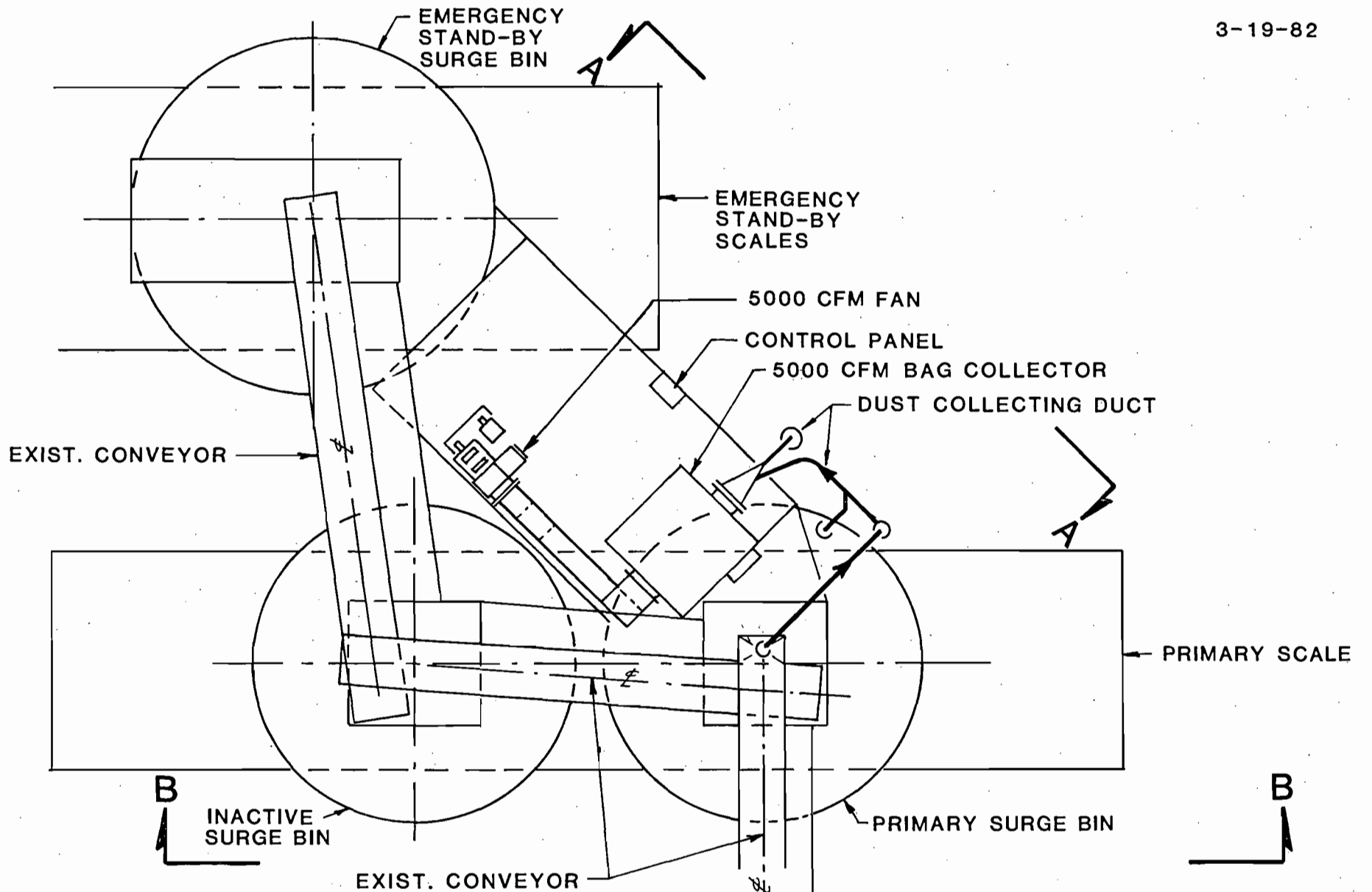
(1) 0.02 ug/CF

$$\text{outlet} = \frac{6.95 \times 16 \times 50 \times 60 \times 5000 \times 0.02}{7000} = \frac{4766 \text{ \#/yr}}{2000} = \frac{2.38 \text{ T/y}}{750} = 99.7\%$$

(2) 0.04 ug/CF

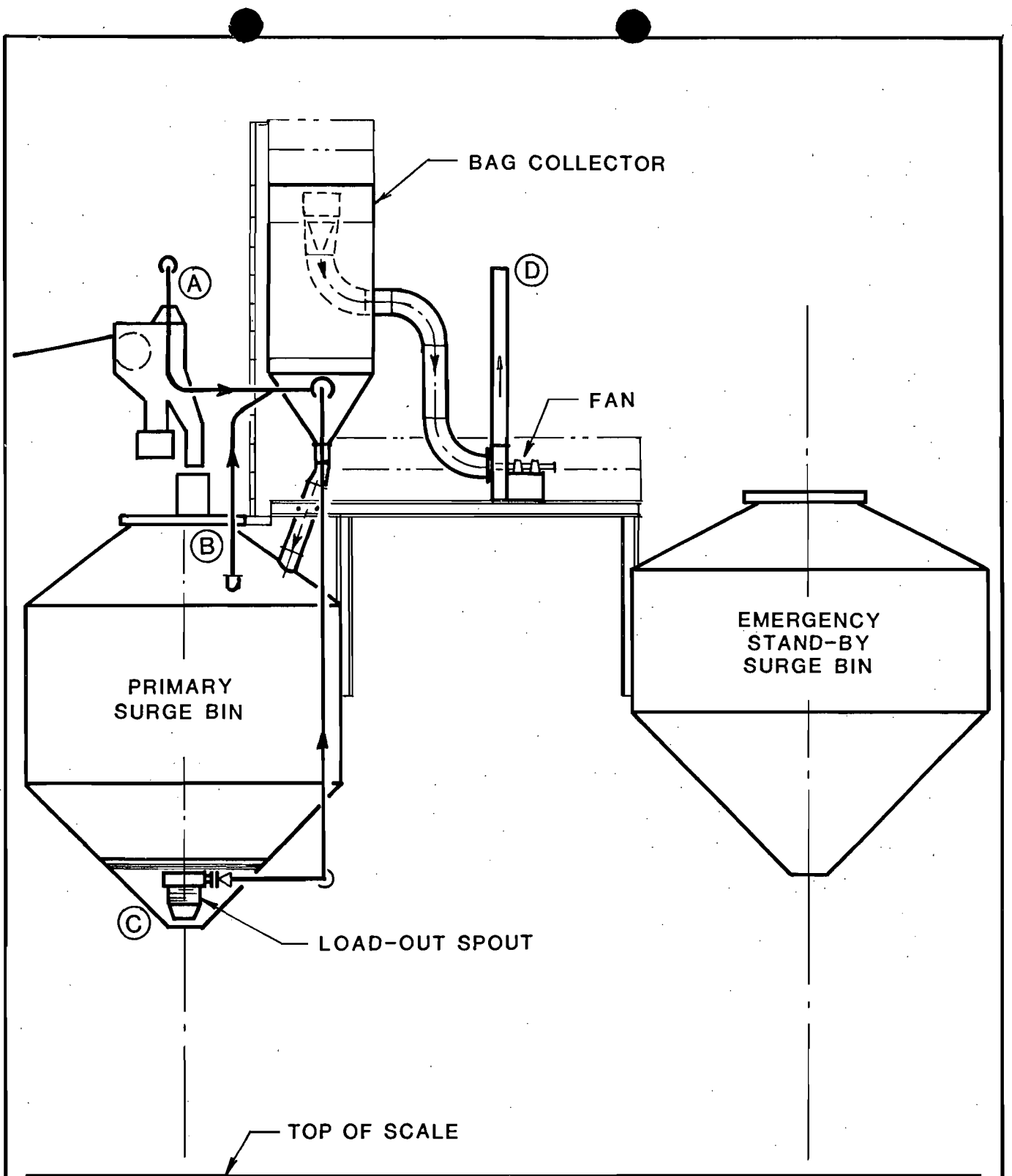
$$\text{outlet} = \frac{6.95 \times 16 \times 50 \times 60 \times 5000 \times 0.04}{7000} = \frac{9532 \text{ \#/yr}}{2000} = \frac{4.77 \text{ T/y}}{750} = 99.4\%$$

3-19-82



PLAN VIEW
General Arrangement

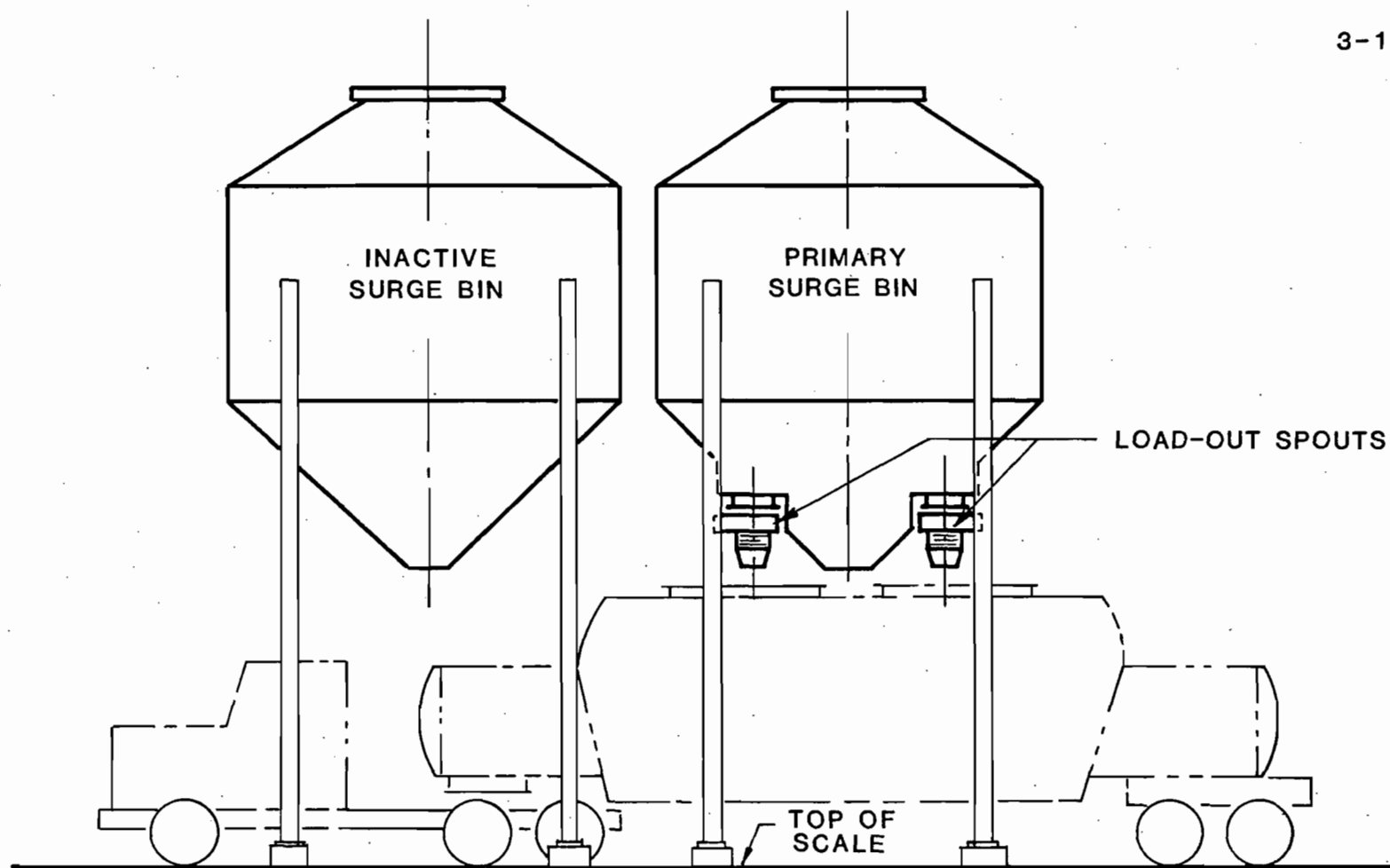




SECTION A-A

General Arrangement

3-19-82



SECTION B-B

General Arrangement



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

SKEC 282-82-01

September 2, 1982

Mr. K. T. Matthews
Mobil Chemical Company
Phosphorus Division
Post Office Box 311
Nichols, FL 33863

Subject: Impact of Mobil Chemical Company
Particulate Matter Emissions on
Hillsborough County Non-Attainment Area

Dear K:

In accordance with your recent request, I have updated the modeling that I reported to you on April 6, 1982 showing the impact of particulate matter emissions from your Nichols facility on the Hillsborough County Particulate Matter Non-Attainment Area. The updated modeling presented herein takes into consideration the additional emissions from the air pollution control system installed to control particulate matter emissions from the dry rock truck loading facility recently installed at your plant.

Before discussing the results of air quality modeling, I would like to summarize the effectiveness of the control system proposed for the truck load-out facility. The load-out rate of dry rock from your Nichols plant has averaged 1 million tons per year for the past four years. The hourly load-out rate is 180 tons per hour. Particulate matter emissions prior to the installation of the control system addressed herein were uncontrolled.

Based on an EPA developed emission factor of 1.5 pounds of uncontrolled particulate matter per ton of dry phosphate rock loaded the hourly particulate matter emission rate from the uncontrolled truck load-out facility was 270 pounds per hour and the annual emission rate of uncontrolled particulate matter was 750 tons per year.

The control facility installed by Mobil for the truck load-out will be vented at a rate of 5,000 cubic feet per minute. The vented gases will pass through a bag collector which will reduce the particulate matter concentration in the gas stream to 0.02 grains per cubic foot. The particulate matter emission rate from this facility will be 0.9 pounds per hour or 2.5 tons per year.

Since the emissions from the truck load-out facility are in the range of one pound per hour and the combined particulate matter emission rate from the other sources at the Nichols plant is 286 pounds per hour, I elected to update the modeling that I reported to you on April 6, 1982 rather than to again conduct all of the preliminary modeling with the CRSTER air quality model.

The modeling that I conducted was done with the PTMTPW air quality model only for those periods for which CRSTER modeling had indicated a potential for exceeding the 24-hour significant impact level at the boundary of the particulate matter non-attainment area. These periods were day 306, 1971; day 351, 1971; and day 345, 1972. Modeling that I conducted previously with the CRSTER air quality model indicated that under meteorological conditions represented by each of these three periods, there was a potential for particulate matter emissions from your Nichols plant to exceed the 24-hour de minimus level at the particulate matter non-attainment area; hence, the selection of these three periods for investigation.

The particulate matter input to the PTMTPW model are summarized in Table 1. These emission data are identical to those reported in my letter of April 6, 1982 with the exception that emissions from the truck load-out facility have been added.

The receptors used with the PTMTPW model are shown in Figure 1. These receptors were defined by the original CRSTER model runs and are identical to those used in earlier modeling that I reported to you.

The PTMTPW model runs are summarized in Table 2 for each of the three periods investigated. These model runs show that the emissions from the truck load out facility will increase the 24-hour particulate matter impact at the boundary of the Hillsborough County Particulate Matter Non-Attainment Area by 0.03 micrograms per cubic meter. In none of the three cases was this increase enough to result in an overall impact greater than the 24-hour significant impact level of 5.0 micrograms per cubic meter.

Based upon this modeling it can be concluded that the particulate matter emissions from your Nichols plant, with all sources including the new truck load-out facility operating 8,760 hours per year and emitting particulate matter at the emission rates listed in Table 1, will not significantly impact the Hillsborough County Particulate Matter Non-Attainment Area for either the annual or the 24-hour period.

If you have any questions regarding the data contained herein, please give me a call.

Very truly yours,

SHOLTES & KOGLER
ENVIRONMENTAL CONSULTANTS, INC.



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

JBK:sc

Attachments

TABLE 1
 PARTICULATE MATTER SOURCE DATA
 MOBIL CHEMICAL COMPANY
 NICHOLS, FLORIDA

Source	Part. Matter Emissions ⁽¹⁾ (lb/hr) (g/sec)		Stack Parameters				Source Location	
			Ht (m)	Dia (m)	Vel (m/sec)	Temp (°K)	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 3	20.2	2.54	30.5	1.68	24.2	326	398.22	3085.00
Dryer 4	28.5*	3.59	25.9	2.28	16.2	339	398.16	3085.04
Rock Stg.	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

(1) Modified emission rate; equal to or less than current allowable particulate matter emission rate. Emission rates marked with (*) are equal to current allowable emission rates; others have been modified to less than the current allowable emission rate.

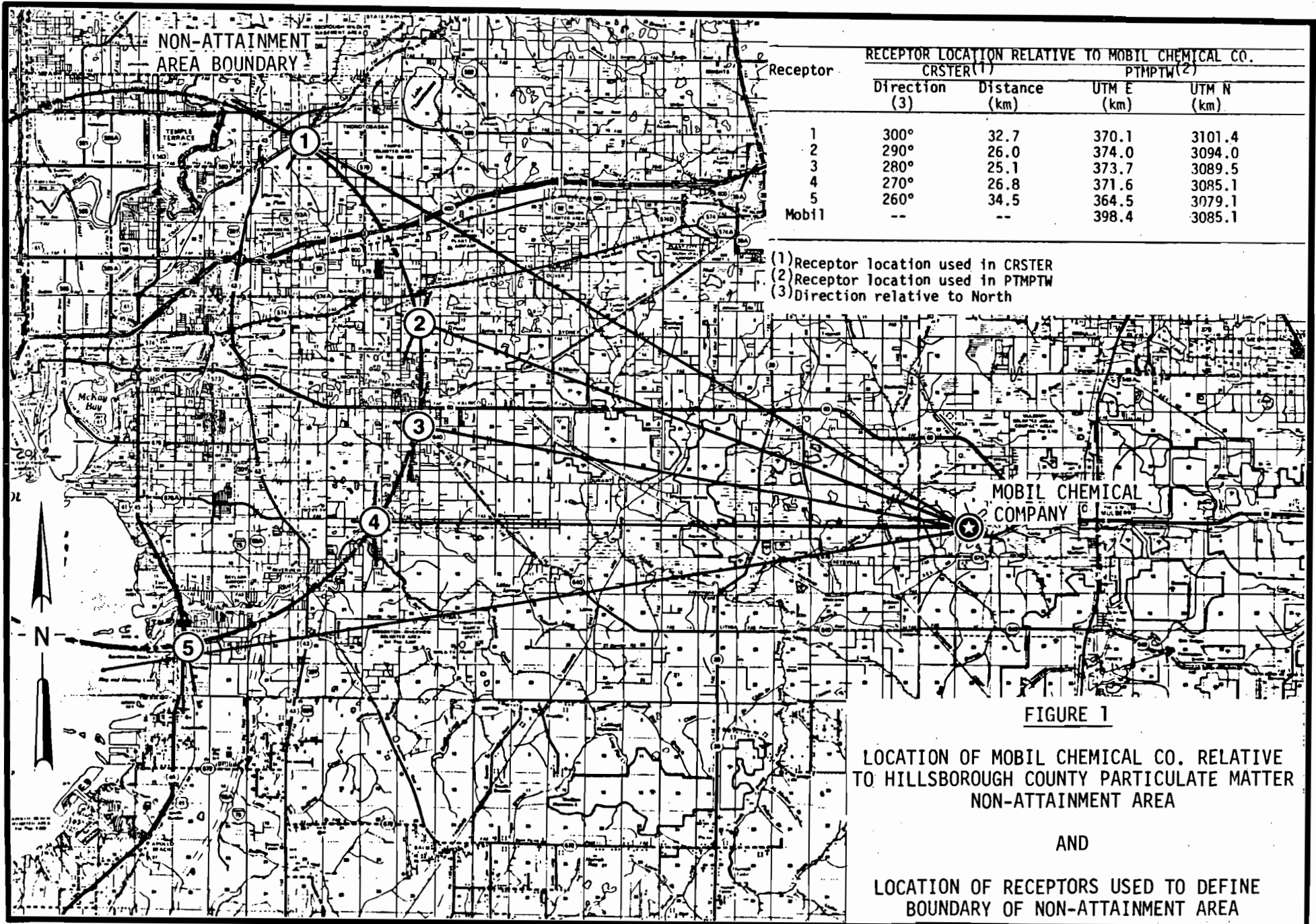
TABLE 2

SUMMARY OF IMPACT OF PARTICULATE MATTER
EMISSIONS FROM MOBIL CHEMICAL COMPANY,
NICHOLS PLANT ON THE HILLSBOROUGH COUNTY
PARTICULATE MATTER NON-ATTAINMENT AREA(1)

MOBIL CHEMICAL COMPANY
NICHOLS, FLORIDA

Time Period	24-Hour Particulate Matter Impact($\mu\text{g}/\text{m}^3$)	
	Without Truck Loadout	With Truck Loadout
Day 306,1971	4.77	4.80
Day 351,1971	4.83	4.86
Day 345, 1972	4.87	4.90

- (1) Preliminary modeling with CRSTER model to select the time periods reported herein is reported in SKEC letters to Mobil Chemical Company dated 2/10/82 and 4/6/82.



STACK HEIGHT ADJUSTMENT = 0.0

*** SOURCE DATA ***

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
#1 Dryer	4.80	25.9	344.0	12.70	2.28	0.	398.480	3085.120
#2 Dryer	4.80	25.9	344.0	12.70	2.28	0.	398.520	3085.140
#3 Dryer	2.54	30.5	326.0	24.20	1.68	0.	398.220	3085.000
#4 Dryer	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 L/O	4.16	25.9	315.0	13.90	1.52	0.	398.310	3085.100
Truck Loading Facility	0.11	12.2	314.0	12.00	0.50	0.	398.400	3085.100

MOBIL - Nichols Plant - PM Impact @ NAA

Day 345.1970 (Tampa)

EPA DIFFUSION MODEL PTMTP

PAGE 2

RECEPTORS

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

*** METEOROLOGY ***

	WIND DIR. (DEG)	WIND VEL. (M/SEC)	STABILITY CLASS	MIX. HT. (M)	AMB. TEMP. (DEG-K)	PRESS. (MB)
1.	91.	3.60	5	86.	290.	1000.00
2.	89.	3.09	6	86.	289.	1000.00
3.	86.	2.57	6	86.	288.	1000.00
4.	86.	2.57	6	86.	288.	1000.00
5.	104.	2.57	6	86.	287.	1000.00
6.	90.	2.57	6	86.	287.	1000.00
7.	63.	2.06	6	86.	285.	1000.00
8.	68.	2.57	5	290.	287.	1000.00
9.	70.	3.60	4	566.	290.	1000.00
10.	95.	3.60	4	842.	294.	1000.00
11.	103.	3.60	4	1118.	295.	1000.00
12.	153.	5.66	4	1393.	295.	1000.00
13.	145.	5.14	4	1669.	295.	1000.00
14.	151.	2.57	4	1945.	298.	1000.00
15.	136.	3.60	4	1945.	299.	1000.00
16.	147.	3.09	3	1945.	299.	1000.00
17.	93.	2.06	4	1945.	299.	1000.00
18.	57.	2.06	6	1545.	293.	1000.00
19.	64.	3.09	5	1273.	293.	1000.00
20.	92.	3.09	6	1001.	293.	1000.00
21.	87.	2.57	6	730.	292.	1000.00
22.	123.	3.60	5	458.	292.	1000.00
23.	124.	2.06	6	186.	291.	1000.00

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

RECEPTORS	1.		2.		3.		4.		5.			
SOURCE NAME	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.
Calciner	0.02	9.33	0.00	12.88	0.03	10.49	0.53	10.85	0.00	11.09		
#1 Dryer	0.02	11.66	0.00	13.45	0.04	12.63	0.56	11.35	0.00	12.31		
#2 Dryer	0.02	10.99	0.00	14.33	0.04	12.46	0.56	11.34	0.00	12.26		
#3 Dryer	0.02	8.52	0.00	4.60	0.02	7.32	0.29	5.83	0.00	6.75		
#4 Dryer	0.02	12.32	0.00	6.93	0.03	10.30	0.40	8.21	0.00	9.36		
Dry Rock Storage	0.03	13.28	0.00	15.25	0.05	13.67	0.67	13.77	0.00	14.40		
Mills #1 & #2	0.02	10.33	0.00	10.93	0.03	10.27	0.63	12.89	0.00	10.80		
Mills #3 & #4	0.02	10.12	0.00	10.83	0.03	10.27	0.62	12.66	0.00	10.68		
Dry Rock L/O	0.03	13.02	0.00	10.43	0.04	12.17	0.62	12.56	0.00	11.93		
Truck Loading Facility	0.00	0.44	0.00	0.36	0.00	0.41	0.03	0.53	0.00	0.43		
TOTAL CONCENTRATION (UG/M**3)												
	0.19		0.01		0.33		4.90		0.00			
							4.17					

TCP OUTPUT CHARGE: \$.04

STACK HEIGHT ADJUSTMENT = 0.0
*** SOURCE DATA ***

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
#1 Dryer	4.80	25.9	344.0	12.70	2.28	0.	398.480	3085.120
#2 Dryer	4.80	25.9	344.0	12.70	2.28	0.	398.520	3085.140
#3 Dryer	2.54	30.5	326.0	24.20	1.68	0.	398.220	3085.000
#4 Dryer	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 L/O	4.16	25.9	315.0	13.90	1.52	0.	398.310	3085.100
Truck Loading Facility	0.11	12.2	314.0	12.00	0.50	0.	398.400	3085.100

RECEPTORS

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

*** METEOROLOGY ***

	WIND DIR. (DEG)	WIND VEL. (M/SEC)	STABILITY CLASS	MIX.HT. (M)	AMB.TEMP. (DEG-K)	PRESS. (MB)
1.	90.	3.09	5	788.	298.	1000.00
2.	125.	4.12	4	1153.	298.	1000.00
3.	127.	4.12	4	1078.	298.	1000.00
4.	130.	3.09	5	788.	298.	1000.00
5.	121.	3.09	6	788.	297.	1000.00
6.	141.	3.09	5	788.	297.	1000.00
7.	104.	3.09	4	770.	297.	1000.00
8.	81.	2.57	4	695.	297.	1000.00
9.	108.	2.57	4	621.	298.	1000.00
10.	133.	3.60	4	546.	299.	1000.00
11.	125.	3.09	4	472.	299.	1000.00
12.	174.	3.60	4	397.	299.	1000.00
13.	169.	4.12	4	323.	299.	1000.00
14.	203.	4.12	4	248.	298.	1000.00
15.	103.	2.57	4	248.	297.	1000.00
16.	105.	3.09	4	248.	297.	1000.00
17.	92.	3.09	4	248.	298.	1000.00
18.	101.	2.06	5	251.	298.	1000.00
19.	99.	1.00	6	260.	296.	1000.00
20.	47.	2.06	6	270.	295.	1000.00
21.	52.	1.00	7	279.	295.	1000.00
22.	52.	1.00	7	288.	295.	1000.00
23.	105.	1.54	6	298.	295.	1000.00
24.	126.	2.06	6	307.	295.	1000.00

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

RECEPTORS SOURCE NAME	1.		2.		3.		4.		5.		PARTIAL CONC.	% CONT.
	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.		
Calciner	0.10	9.77	0.06	11.83	0.54	11.21	0.12	10.63	0.03	10.76		
#1 Dryer	0.11	11.06	0.07	13.18	0.50	10.44	0.14	12.87	0.04	13.10		
#2 Dryer	0.11	10.58	0.07	13.55	0.51	10.54	0.14	12.80	0.04	13.03		
#3 Dryer	0.07	7.17	0.03	5.69	0.25	5.21	0.07	6.73	0.02	6.94		
#4 Dryer	0.10	10.05	0.04	8.34	0.34	7.10	0.11	9.79	0.03	9.89		
Dry Rock Storage	0.14	13.73	0.07	14.69	0.68	14.17	0.15	13.90	0.04	13.85		
Mills #1 & #2	0.12	11.98	0.05	10.60	0.68	14.24	0.12	10.47	0.03	10.08		
Mills #3 & #4	0.12	11.73	0.05	10.54	0.67	13.86	0.12	10.46	0.03	10.13		
Dry Rock L/O	0.14	13.41	0.06	11.21	0.61	12.66	0.13	11.95	0.03	11.85		
Truck Loading Facility	0.01	0.52	0.00	0.37	0.03	0.57	0.00	0.41	0.00	0.38		
TOTAL CONCENTRATION (UG/M**3)												
	1.04		0.50		4.80		1.11		0.27			
					4.77							

TCP OUTPUT CHARGE: \$.04

STACK HEIGHT ADJUSTMENT = 0.0
*** SOURCE DATA ***

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
#1 Dryer	4.80	25.9	344.0	12.70	2.28	0.	398.480	3085.120
#2 Dryer	4.80	25.9	344.0	12.70	2.28	0.	398.520	3085.140
#3 Dryer	2.54	30.5	326.0	24.20	1.68	0.	398.220	3085.000
#4 Dryer	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 L/D	4.16	25.9	315.0	13.90	1.52	0.	398.310	3085.100
Truck Loading Facility	0.11	12.2	314.0	12.00	0.50	0.	398.400	3085.100

* * * 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

*** METEOROLOGY ***

	WIND DIR. (DEG)	WIND VEL. (M/SEC)	STABILITY CLASS	MIX. HT. (M)	AMB. TEMP. (DEG-K)	PRESS. (MB)
1.	99.	2.57	5	219.	293.	1000.00
2.	100.	1.54	6	219.	293.	1000.00
3.	103.	1.54	6	219.	293.	1000.00
4.	125.	2.06	5	219.	293.	1000.00
5.	75.	1.54	6	219.	293.	1000.00
6.	104.	2.06	5	219.	293.	1000.00
7.	46.	1.54	6	219.	293.	1000.00
8.	153.	3.09	4	518.	295.	1000.00
9.	198.	3.09	4	697.	298.	1000.00
10.	185.	2.57	4	875.	299.	1000.00
11.	212.	4.12	3	1054.	300.	1000.00
12.	205.	4.12	3	1233.	300.	1000.00
13.	228.	3.09	3	1411.	300.	1000.00
14.	266.	6.17	4	1411.	300.	1000.00
15.	284.	5.66	4	1411.	299.	1000.00
16.	289.	5.14	4	1411.	298.	1000.00
17.	303.	3.09	5	1360.	296.	1000.00
18.	303.	3.09	5	1245.	294.	1000.00
19.	313.	2.57	5	1016.	294.	1000.00
20.	282.	1.54	6	901.	293.	1000.00
21.	277.	2.06	6	786.	294.	1000.00

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

RECEPTORS SOURCE NAME	1.		2.		3.		4.		5.			
	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.	PARTIAL CONC.	% CONT.
Calciner	0.00	8.78	0.00	13.65	0.52	10.65	0.00	7.34	0.00	13.83		
#1 Dryer	0.01	11.22	0.00	13.03	0.52	10.72	0.00	12.89	0.00	8.55		
#2 Dryer	0.00	10.32	0.00	14.33	0.52	10.65	0.00	11.70	0.00	9.04		
#3 Dryer	0.00	9.48	0.00	3.57	0.28	5.79	0.00	11.66	0.00	3.28		
#4 Dryer	0.01	13.68	0.00	5.47	0.38	7.83	0.00	14.26	0.00	5.57		
Dry Rock Storage	0.01	12.98	0.00	15.58	0.66	13.61	0.00	10.07	0.00	18.24		
Mills #1 & #2	0.00	10.00	0.00	12.07	0.66	13.64	0.00	8.58	0.00	16.11		
Mills #3 & #4	0.00	9.77	0.00	11.89	0.65	13.42	0.00	9.32	0.00	13.89		
Dry Rock L/O	0.01	13.34	0.00	9.99	0.64	13.09	0.00	13.68	0.00	11.04		
Truck Loading Facility	0.00	0.43	0.00	0.40	0.03	0.58	0.00	0.49	0.00	0.45		
TOTAL CONCENTRATION (UG/M**3) *												
	0.05		0.02		4.86		0.00		0.00			
					4.81							

TCP OUTPUT CHARGE: \$.04

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.



CER 101

A handwritten signature in cursive script, appearing to read "George Firestone".

George Firestone
Secretary of State

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: [Signature] EEJ
Vice President W. A. BURK

Attest:

[Signature]
Assistant Secretary
G. G. GARNEY

Witnesses:

[Signature]
[Signature]
FRED TYSON