

P 938 762 636

RECEIPT FOR CERTIFIED MAIL

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

Sent to C. M. Farris, Gen. Mgr.	
Farmland Ind., Inc.	
P.O. Box 960	
Bartow, FL 33830	
Postage	S
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	S
Postmark or Date mailed: 7/31/89 AC 53-166067	

PS Form 3800, June 1985

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

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

3. Article Addressed to: C. M. Farris Gen Mgr Farmland Ind., Inc. P.O. Box 960 Bartow, FL 33830	4. Article Number P 938 762 636
	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
	Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature - Address X <i>Linda Thompson</i>	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X	X 960
7. Date of Delivery 8/15/89	

UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS

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

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

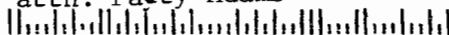
RETURN

TO



Print Sender's name, address, and ZIP Code in the space below.
Department of Environmental Regulation
Division of Air Resources Management
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

attn: Patty Adams



RECEIVED

AUG 4 1989

DER-BAQM



PENALTY FOR PRIVATE
USE, \$300



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION NOTICE OF PERMIT

Mr. C. M. Farris, General Manager
Farmland Industries, Inc.
Post Office Box 960
Bartow, Florida 33830

July 28, 1989

Enclosed is construction permit No. AC 53-166067 which authorizes the installation of the North GTSP/MAP/DAP product cooler system at your facility near Bartow, Polk County, Florida. This permit is issued pursuant to Section 403, Florida Statutes.

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

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

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

Copy furnished to:

B. Thomas, SW District
U. K. Custred, P.E.
Reading File } 7-31-89 AM
Willard Hanks }

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on 7-31-89.

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

Martha J. Wise 7-31-89
Clerk Date

Final Determination

Farmland Industries, Inc.
Polk County
Bartow, Florida

North GTSP/MAP/DAP Product Cooler System
Permit No. AC 53-166067

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

July 28, 1989

Final Determination

The Technical Evaluation and Preliminary Determination for the permit to construct the North GTSP/MAP/DAP product cooler system at Farmland's phosphate fertilizer chemical complex located near Bartow, Polk County, Florida, was distributed on June 28, 1989. The Notice of Proposed Agency Action was published in The Ledger on July 8, 1989. Copies of the evaluation were available for public inspection at the Department's offices in Tampa and Tallahassee. No comments were received on the Department's proposed intent to issue the permit.

The final action of the Department will be to issue construction permit No. AC 53-166067 as proposed in the Technical Evaluation and Preliminary Determination.



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:
Farmland Industries, Inc.
P. O. Box 960
Bartow, Florida 33830

Permit Number: AC 53-166067
Expiration Date: January 31, 1990
County: Polk
Latitude/Longitude: 27°50'37"N
81°56'05"W
Project: North GTSP/MAP/DAP Plant

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

Installation of a product cooler system on the North GTSP/MAP/DAP plant which consists of two GEESI Model No. 8.0 x 10.0-4 Econo-Flow Coolers, Model #CF-90-123 cooler cyclone, and associated equipment including ducts to connect the coolers to the existing plant scrubber system. The plant is part of the phosphate fertilizer complex located on State Road 640 West near Bartow, Polk County, Florida. The UTM coordinates of this plant are Zone 17, 409.5 km E and 3079.5 km N.

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

Attachments are listed below:

1. Application received June 7, 1989.
2. Farmland Industries' letter dated June 14, 1989.

PERMITTEE:
Farmland Industires, Inc.

Permit No. AC 53-166067
Expiration Date: January 31, 1990

GENERAL CONDITIONS:

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

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

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

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

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

PERMITTEE:
Farmland Industires, Inc.

Permit No. AC 53-166067
Expiration Date: January 31, 1990

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Farmland Industires, Inc.

Permit No. AC 53-166067
Expiration Date: January 31, 1990

GENERAL CONDITIONS:

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

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

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

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

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

13. This permit also constitutes:

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

14. The permittee shall comply with the following:

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

PERMITTEE:
Farmland Industires, Inc.

Permit No. AC 53-166067
Expiration Date: January 31, 1990

GENERAL CONDITIONS:

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

c. Records of monitoring information shall include:

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

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

SPECIFIC CONDITIONS:

1. Maximum production of the North GTSP/MAP/DAP plant shall not exceed the following:

Product	Max. Production (TPH)
GTSP	33.2
MAP	70
DAP	50

The permittee shall maintain logs that can be used to determine compliance with these restrictions. These logs shall include the

PERMITTEE:
Farmland Industires, Inc.

Permit No. AC 53-166067
Expiration Date: January 31, 1990

SPECIFIC CONDITIONS:

hourly quantity of phosphate rock and phosphoric acid feed to the plant along with the P₂O₅ content.

2. The North GTSP/MAP/DAP plant may operate continuously, 8760 hrs/year.

3. Maximum fluoride emissions from this plant shall not exceed the following:

Product	lbs/TP ₂ O ₅ Input	lbs/hr	TPY
GTSP	0.53	8.2	35.8
MAP	0.12	3.4	14.9
DAP	0.06	2.4	10.5

4. Maximum particulate matter emissions shall not exceed the quantity allowed by F.A.C. Rule 17-2, Table 610-1, Process Weight Table, and 26.9 lbs/hr.

5. Visible emissions from any part of this plant shall not exceed 20% opacity.

6. Compliance with the emission standards specified in Specific Condition Nos. 3, 4, and 5 shall be determined by EPA Reference Methods 1, 2, 3, 4, 5, 9, 13A or 13B as described in 40 CFR 60, Appendix A, July 1, 1988, and plant production records.

7. Only natural gas fuel shall be used in this plant. Heat input to the dryer shall not exceed 50 MMBtu/hr.

8. The plant shall not cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor.

9. The permittee shall minimize the escape of unconfined emissions by keeping covers on process equipment, prompt clean up of spills within the plant, and cleaning or wetting areas used by vehicles.

10. Before this construction permit expires, the permittee shall sample the plant for particulate matter and fluoride emissions while it is operating as near as practical to its permitted

PERMITTEE:
Farmland Industires, Inc.

Permit No. AC 53-166067
Expiration Date: January 31, 1990

SPECIFIC CONDITIONS

capacity but not below 90% of the permitted capacity and, using the procedures described in 40 CFR 60, Appendix C, determine if the use of the cooler increases the emissions from this plant. The gas pressure drop across the scrubber shall be reported in the compliance test report.

11. The permittee shall notify the Department's Southwest District at least 15 days prior to any compliance test. Compliance testing shall be conducted within 30 days of a change in product (DAP, MAP or GTSP).

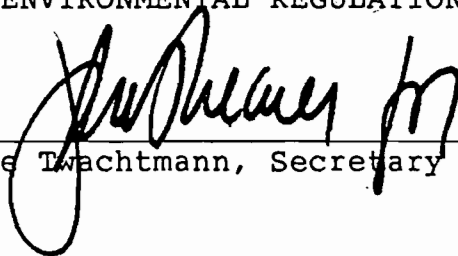
12. The permittee shall comply with all applicable requirements of 40 CFR 60 and Chapter 17-2, F.A.C., if the use of the cooler system causes an increase in fluoride emissions.

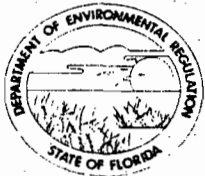
13. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the BAQM prior to 60 days before the expiration of the permit (F.A.C. 17-4.090).

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

Issued this 27th day
of July, 1989

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION


Dale Twachtmann, Secretary



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

Interoffice Memorandum

TO: Dale Twachtmann

FROM: Steve Smallwood *SS*

DATE: July 28, 1989

SUBJ: Approval of Construction Permit
Farmland Industries, Inc.

Attached for your approval and signature is a permit prepared by Central Air Permitting for the above mentioned company to install a granular product cooler system in their phosphate fertilizer plant located near Bartow, Polk County, Florida.

Day 90, after which the permit would be issued by default, is October 27, 1989.

I recommend your approval and signature.

SS/WH/t

RECEIVED

JUL 28 1989

Office of the Secretary

Steve
Does the Secretary have to sign these?
The Secretary, you, or me!
unless the sub is approved.
SS
8-1-89

Check Sheet

→ P 4/20

Company Name: *Farmland Industries*

Permit Number: *AB53-166067*

PSD Number:

County: *Polk*

Permit Engineer:

Others involved:

Application:

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

Intent:

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

Final Determination:

- Final Determination
- Signed Permit
- BACT Determination
- Other

Post Permit Correspondence:

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

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

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

3. Article Addressed to: Charles Jenkins, E.C. Fairland Industries, Inc. P.O. Box 960 Barrow, Al 33830-0960	4. Article Number P407 852 684
5. Signature - Addressee X <i>Linda Thompson</i>	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
6. Signature - Agent X	Always obtain signature of addressee or agent and DATE DELIVERED.
7. Date of Delivery 5-10-91 <i>CD</i>	8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

P 407 852 684
RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

Sent to Charles Jenkins	
Street and No. Fairland, Ind.	
P.O., State and ZIP Code Barrow, Al	
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 5-8-91 AC 53-166067 AO 53-171758	

*U.S.G.P.O. 1989-234-565
 PS Form 3800, June 1985



Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

April 29, 1991

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Charles Jenkins, Environmental Coordinator
Farmland Industries, Inc.
Post Office Box 960
Bartow, Florida 33830-0960

Dear Mr. Jenkins:

Re: Permit Nos. AC 53-166067 and AO 53-171758
GTSP/MAP/DAP Plant

The Department is in receipt of your March 4, 1991, letter requesting permission to burn No. 2 diesel fuel in your GTSP/MAP/DAP plant dryer for up to 400 hours per year when the natural gas fuel supply to this plant is curtailed. This request is acceptable to the Department. As this is the case, Specific Condition No. 7 of construction permit No. AC 53-166067 and Specific Condition No. 14 of operation permit No. AO 53-171758 shall read as follows:

Natural gas shall be the primary fuel used in this dryer. During periods of natural gas curtailment, No. 2 diesel fuel containing a maximum of 0.5% sulfur may be fired in the dryer for up to 400 hours per year. The permittee shall maintain records at this facility for a minimum of 3 years that show the date, time, and quantity of No. 2 diesel fuel burned in the dryer. The normal firing rate of the dryer is 25 MMBtu/hr. The maximum permitted firing rate is 50 MMBtu/hr.

A copy of this letter shall be filed with the referenced permits and shall become a part of those permits.

Sincerely,

STEVE SMALLWOOD, P.E.

Director

Division of Air Resources
Management

SS/WH/plm

Attachment: Farmland's letter dated March 4, 1991

c: Bill Thomas, SW District



Farmland Industries, Inc.
Fertilizer Phosphate Manufacturing
County Road 640
Post Office Box 960
Bartow, Florida 33630-0960
Telephone: 813 533-1141
Facsimile: 813 533-6793

D. E. F.

MAR - 6 1991

SOUTHWEST DISTRICT
TAMPA

Charles W. Jenkins
Environmental Coordinator

Mr. Bill Thomas, P.E.
Air Programs
Department of Environmental Regulation
4520 Oak Fair Boulevard
Tampa, FL 33610-7347

March 4, 1991

Re: Air Source Permits No. A053-171758 and A053-157066

Dear Bill,

In the above referenced air permit A053-171758, Specific Condition No. 14 states that the dryer shall be fired with natural gas only which is normally the case except on rare occasion when natural gas is curtailed. It is then necessary to fire with standby No. 2 diesel fuel or cause the operation to be shutdown. We therefore request an amendment to allow a maximum of 400 hours per year of oil firing similar to Condition No. 7 of our Therminol Heater Permit No. A053-187834. (Copy Attached)

Tallahassee

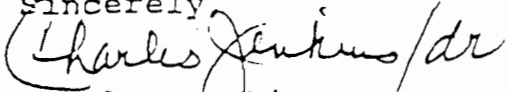
In the second permit, reference is made to an operating rate of 90 tons/hour on the face page and in Specific Condition No. 3 the process rate is referred to as 90 tons/hour of product. We would like to request that the wording be changed to 90 tons/hour of P₂O₅. We have not changed our shipping rate since this permit was renewed in 1989 but little attention was paid to the rate since the shipping operation is either on or off and rate is not varied like production operations. Our Spring and Fall stack tests for 1989 and the Spring 1990 stack test reported the rate at 90 tons/hour of P₂O₅, but the Fall 1990 stack test listed the rate inadvertently as 90 tons/hour of product.

Southwest
District
(Amend)

(over)

If there are any questions please contact either myself or Mr.
Gene Meier at (813) 533-1141.

Sincerely,


Charles Jenkins
Environmental Coordinator

CWJ:dr/cwj1691

cc: Gene Meier



FARMLAND INDUSTRIES, INC.

post office box 960 / bartow, florida 33830

July 14, 1989

Mr. Bill Thomas
Central Air Permitting
Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Re: AC 53-166067

Dear Bill,

Attached is an Affidavit of Publication of the Notice of Proposed Action on our permit application.

If you have any questions, please give me a call.

Very truly yours,

A handwritten signature in cursive script that reads "Gene Meier/dr".

C. Gene Meier
Administrator,
Environmental Services

CGM:dr

Attachment

*Copied: St. Hanks
H. Kerns, SW Dist.*

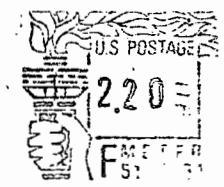
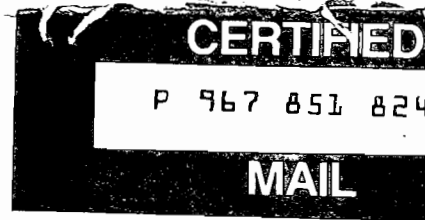
RECEIVED
JUL 19 1989
DER-BAQM

FII-5430 (10/79)

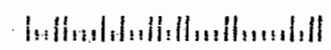


FARMLAND INDUSTRIES, INC.

P. O. BOX 960
BARTOW, FLORIDA 33830



Mr. Bill Thomas
Central Air Permitting
Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400





FARMLAND INDUSTRIES, INC.

post office box 960 / bartow, florida 33830

July 5, 1989

The Ledger
Legal Advertising
401 South Missouri Avenue
Lakeland, Florida 33802
ATTENTION: CHERYL WEBB

CGM-62-89

Dear Ms. Webb:

Please find attached a Notice of Proposed Action on Permit Application. Farmland Industries request the notice be published one (1) time only in the earliest edition possible. Please provide an Affidavit of Publication and bill for services to Gene Meier at the address on the letterhead.

Very truly yours,

Gene Meier
Administrator Environmental Services

CGM:mmb

AFFIDAVIT OF PUBLICATION

THE LEDGER

Lakeland, Polk County, Florida

Case No

Attach Notice Here

STATE OF FLORIDA)
COUNTY OF POLK)

Before the undersigned authority personally appeared Stephen DeWitt, who on oath says that he is Controller of The Ledger, a daily newspaper published at Lakeland in Polk County, Florida; that the attached copy of advertisement, being a

Notice of Intent

in the matter of

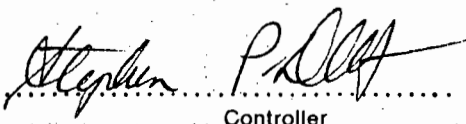
Issue Permit

in the

Court, was published in said newspaper in the issues of

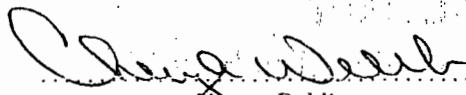
July 8; 1989

Affiant further says that said The Ledger is a newspaper published at Lakeland, in said Polk County, Florida, and that the said newspaper has heretofore been continuously published in said Polk County, Florida, daily, and has been entered as second class matter at the postoffice in Lakeland, 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 the said newspaper.

Signed 
Controller

Sworn to and subscribed before me this 13th

day of July A.D. 1989

(Seal) 
Notary Public

NOTARY PUBLIC, STATE OF FLORIDA,
MY COMMISSION EXPIRES: JUNE 25, 1991,
BONDED THRU NOTARY PUBLIC UNDERWRITERS.

My Commission Expires

State of Florida
Department of Environmental Regulation
Notice of Intent to Issue
The Department of Environmental Regulation hereby gives notice of its intent to issue a permit to Farnland Industries, Inc., P.O. Box 960, Bartow, Florida 33830, to construct a product cooler system on the North (GTSP/MAP/DAP) plant at the phosphate fertilizer facility located on State Road 640, West, near Bartow, Polk County, Florida. Installation of the proposed cooler system will alter an existing facility (North GTSP/MAP/DAP plant). The installation of the cooler system will not increase production and is not expected to increase particulate matter and fluoride emissions from the plant. No prevention of significant deterioration increment consumption is expected. A determination of Best Available Control Technology (BACT) was not required. The Department is issuing this intent to issue for the reasons stated in the Technical Evaluation and Preliminary Determination.
A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with section 120.57 Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under section 120.57 Florida Statutes.
The Petition shall contain the following information:
(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed.
(b) A statement of how and when each petitioner received notice of the Department's action or proposed action.
(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action.
(d) A statement of the material facts disputed by petitioner, if any.
(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action.
(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action, and
(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.
If a petition is filed the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interest will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 285.207, F.A.C.
The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:
Department of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
Department of Environmental Regulation
Southwest District
4520 Oak Fair Boulevard
Tampa, Florida 33610-7347
Any person may send written comments on the proposed action to Mr. Bill Thomas at the Department's Tallahassee address. All comments mailed within 14 days of the publication of this notice will be considered in the Department's final determination.
K217-78-1989

P 938 762 605

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

PS Form 3800, June 1985

Sent to Mr. C. M. Farris, Farmland Ind	
Street and No. P.O. Box 960	
P.O., State and ZIP Code Bartow, FL 33830	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date Mailed: 6-28-89 Permit: AC 53-166067	

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

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

3. Article Addressed to: Mr. C. M. Farris General Manager Farmland Industries, Inc. P.O. Box 960 Bartow, Florida 33830	4. Article Number P 938 762 605 Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
5. Signature — Address X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature — Agent X <i>Dean Hicks</i>	
7. Date of Delivery <i>6-28-89</i>	

UNITED STATES POSTAL SERVICE
OFFICIAL BUSINESS

SENDER INSTRUCTIONS

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

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

RETURN
TO



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

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

RECEIVED

JUL 5 1989

DER-BAQM



PENALTY FOR PRIVATE
USE, \$300



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

June 27, 1989

CERTIFIED MAIL-RETURN RECEIPT REQUESTED


Mr. C. M. Farris, General Manager
Farmland Industries, Inc.
P. O. Box 960
Bartow, Florida 33830

Dear Mr. Farris:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permit to construct a product cooler system at your existing North GTSP/MAP/DAP plant.

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

Sincerely,


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

CHF/WH/plm

Attachments

cc: Bill Thomas, SW District
U. K. Custred, P.E.

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of
Application for Permit by:

Farmland Industries, Inc.
P. O. Box 960
Bartow, Florida 33830

DER File No. AC 53-166067

INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit (copy attached) for the proposed project as detailed in the application specified above. The Department is issuing this Intent to Issue for the reasons stated in the attached Technical Evaluation and Preliminary Determination.

The applicant, Farmland Industries, Inc., applied on June 7, 1989, to the Department of Environmental Regulation for a permit to construct a product cooler system at your existing North GTSP/MAP/DAP plant.

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

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

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

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

The Petition shall contain the following information:

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

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

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

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

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

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

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

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

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



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

Copies furnished to:

Bill Thomas, SW District
U. K. Custred, P.E.

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on 6-28-89.

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

Martha J. Wise 6-28-89
Clerk Date

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

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit to Farmland Industries, Inc., P. O. Box 960, Bartow, Florida 33830, to construct a product cooler system on the North GTSP/MAP/DAP plant at the phosphate fertilizer facility located on State Road 640 West, near Bartow, Polk County, Florida. Installation of the proposed cooler system will alter an existing facility (North GTSP/MAP/DAP plant). The installation of the cooler system will not increase production and is not expected to increase particulate matter and fluoride emissions from the plant. No prevention of significant deterioration increment consumption is expected. A determination of Best Available Control Technology (BACT) was not required. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

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The Petition shall contain the following information:

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- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
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(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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

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

Department of Environmental Regulation
Southwest District
4520 Oak Fair Boulevard
Tampa, Florida 33610-7347

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

Technical Evaluation
and
Preliminary Determination

Farmland Industries, Inc.
Polk County
Bartow, Florida

North GTSP/MAP/DAP Product Cooler System
Permit Number: AC 53-166067

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

June 27, 1989

I. General Information

A. Applicant

Farmland Industries, Inc.
P. O. Box 960
Bartow, Florida 33830

B. Request

On June 7, 1989, Farmland Industries, Inc. applied for a permit to construct a product cooler system at the existing North granular triple superphosphate, monoammonium phosphate, or diammonium phosphate (GTSP/MAP/DAP) plant (SIC 2874). The application was considered complete on June 15, 1989.

C. Project and Location

The applicant is requesting permission to install a product cooler system consisting of twin coolers and a cyclone on the existing North GTSP/MAP/DAP plant (AO 53-160330) located on State Road 640 West, near Bartow, Polk County, Florida. The UTM Coordinates of this site are Zone 17, 409.5 km E and 3079.5 km N. The purpose of the cooler system is to improve the quality of the granulated fertilizer product so that it will be easier to handle. The cooler system will not increase production but has a potential to increase emissions from the plant. The Department expects the existing plant scrubber system to handle the additional load without increasing particulate matter or fluoride emissions.

D. Process

The applicant manufactures GTSP, MAP, and DAP fertilizer in a plant that uses the TVA process. GTSP is made from phosphate rock and phosphoric acid. MAP and DAP are made from phosphoric acid and ammonia. A slurry is made of the raw materials, mixed with pellets of the product, dried, screened, and sent to storage prior to shipping. Particulate matter and fluorides generated by the process are removed from the air streams by cyclones and scrubbers before being discharged to the atmosphere.

Current practices in shipping the granular products require the applicant to cool the MAP. The purpose of this application is to obtain permission to install the cooler system. The cooler system discharges air to the existing plant scrubber system. The addition of the cooler system will not increase production but has a potential to increase emissions from the plant if the existing plant scrubber system cannot handle the additional load caused by the cooler.

II. Rule Applicability

The proposed project, installation of a product cooler system to a existing GTSP/MAP/DAP phosphate fertilizer plant (SIC 2874), is subject to preconstruction review under the provisions of Chapter 403. F.S., and Chapter 17-2, F.A.C..

The plant is in an area designated unclassifiable for particulate matter (F.A.C. Rule 17-2.430), and attainment for the other criteria pollutants (F.A.C. 17-2.420).

The phosphate fertilizer complex containing the GTSP/MAP/DAP plant is a major facility because allowable emissions of particulate matter and sulfur dioxide exceed 100 TPY. The installation and operation of the proposed equipment is not expected to increase emissions.

The facility is exempt from the Prevention of Significant Deterioration (PSD) regulations (F.A.C. Rule 17-2.500) and New Source Review for Nonattainment Areas (F.A.C. Rule 17-2.510) because the alteration to the plant is not expected to increase emissions of any air pollutant.

The proposed project is subject to F.A.C. Rule 17-2.520, Sources Not Subject to PSD or Nonattainment Requirements. Emission standards shall be based on F.A.C. Rules 17-2.600(3), 17-2.610, and actual plant production and emissions. If the project would result in an increase of either production or emissions, it would be subject to other regulations.

III. Technical Evaluation

The proposed cooler system will discharge 40,000 ACFM of air through the new 65% efficient (10 micron) cyclone and then to the existing S/M scrubber which discharges to the existing cross flow scrubber and then to the 129 ft. high stack. Combined total control efficiencies of the new cyclone and existing air pollution control equipment should exceed 99% for fluorides and 85% for particulate matter. The proposed cooler system will increase the uncontrolled particulate matter and fluoride emissions. The applicant will be required to measure the plant's emissions before and after the use of the cooler to confirm the emissions from the plant are not increased.

Summaries of the production and allowable emissions for the North GTSP/MAP/DAP plant are shown in the following table.

Product	Production (TPH)	Basis for Max. Prod	Permitted PM	Emissions F
GTSP	33.2	Permit No. AO 53-62458	30.2 lbs/hr	8.18 lbs/hr
MAP	70	SW District files	30.2 lbs/hr	0.12 lbs/TP ₂₀₅
DAP	50	DER's letter dated Nov. 28, 1984	30.2 lbs/hr	0.06 lbs/TP ₂₀₅

Test results supplied by the applicant show particulate matter (PM) emissions as high as 26.9 lbs/hr. The Department considers this rate the plant's maximum actual emissions for PM.

For GTSP production, fluoride emissions in excess of the allowable 8.18 lbs/hr (based on F.A.C. Rule 17-2.600(3)(b)) were reported. The Department will consider this rate the plant's maximum actual emissions for fluorides during the manufacture of GTSP. Were these emissions to increase, this plant would be subject to new source performance standards (NSPS) for GTSP plants.

For MAP production, fluoride emissions of 0.12 lbs/TP₂₀₅ and 3.4 lbs/hr have been measured. The Department will consider these rates the plant's maximum actual emissions for fluorides during the manufacture of MAP. Were these emissions to increase, the fluoride emission standard would be established by a Best Available Control Technology Determination (F.A.C. Rule 17-2.600(3)(a)9.).

For DAP production, emissions near the allowable 0.06 lbs fluoride/TP₂₀₅ have been measured. The Department will consider this rate, along with an upper limit based on the original permitted production capacity of this plant, the maximum actual emissions for fluorides during the manufacture of DAP. Were these emissions to increase, the plant would be subject to NSPS for DAP plants.

IV. Ambient Air Impact

Use of this cooler is not expected to increase emissions. Therefore, this project will not change the existing ambient air impact caused by this plant.

V. Conclusion

Based on the information submitted by Farmland Industries, Inc., the Department has reasonable assurance that the installation of a cooler system on the North GTSP/MAP/DAP plant, as described in this evaluation, and subject to the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, PSD increment, or any other technical provision of Chapter 17-2 of the Florida Administrative Code.





Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:
Farmland Industries
P. O. Box 960
Bartow, Florida 33830

Permit Number: AC 53-166067
Expiration Date: January 31, 1990
County: Polk
Latitude/Longitude: 27°50'37"N
81°56'05"W
Project: North GTSP/MAP/DAP Plant

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

Installation of a product cooler system on the North GTSP/MAP/DAP plant which consists of two GEESI Model No. 8.0 x 10.0-4 Econo-Flow Coolers, Model #CF-90-123 cooler cyclone, and associated equipment including ducts to connect the coolers to the existing plant scrubber system. The plant is part of the phosphate fertilizer complex located on State Road 640 West near Bartow, Polk County, Florida. The UTM coordinates of this plant are Zone 17, 409.5 km E and 3079.5 km N.

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

Attachments are listed below:

1. Application received June 7, 1989.
2. Farmland Industries' letter dated June 14, 1989.

PERMITTEE:
Farmland Industires, Inc.

Permit No. AC 53-166067
Expiration Date: January 31, 1990

GENERAL CONDITIONS:

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

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

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

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

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

PERMITTEE:
Farmland Industires, Inc.

Permit No. AC 53-166067
Expiration Date: January 31, 1990

GENERAL CONDITIONS:

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

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

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

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

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

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

PERMITTEE:
Farmland Industires, Inc.

Permit No. AC 53-166067
Expiration Date: January 31, 1990

GENERAL CONDITIONS:

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

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

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

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

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

13. This permit also constitutes:

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

14. The permittee shall comply with the following:

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

PERMITTEE:
Farmland Industires, Inc.

Permit No. AC 53-166067
Expiration Date: January 31, 1990

GENERAL CONDITIONS:

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

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

SPECIFIC CONDITIONS:

1. Maximum production of the North GTSP/MAP/DAP plant shall not exceed the following:

Product	Max. Production (TPH)
GTSP	33.2
MAP	70
DAP	50

The permittee shall maintain logs that can be used to determine compliance with these restrictions. These logs shall include the

PERMITTEE:
Farmland Industires, Inc.

Permit No. AC 53-166067
Expiration Date: January 31, 1990

SPECIFIC CONDITIONS:

hourly quantity of phosphate rock and phosphoric acid feed to the plant along with the P₂O₅ content.

2. The North GTSP/MAP/DAP plant may operate continuously, 8760 hrs/year.

3. Maximum fluoride emissions from this plant shall not exceed the following:

Product	lbs/TP ₂ O ₅ in	lbs/hr	TPY
GTSP	0.53	8.18	35.8
MAP	0.12	3.4	14.9
DAP	0.06	2.4	10.5

4. Maximum particulate matter emissions shall not exceed the quantity allowed by F.A.C. Rule 17-2, Table 610-1, Process Weight Table, and 26.9 lbs/hr.

5. Visible emissions from any part of this plant shall not exceed 20% opacity.

6. Compliance with the emission standards specified in Specific Condition Nos. 3, 4, and 5 shall be determined by EPA Reference Methods 1, 2, 3, 4, 5, 9, 13A or 13B as described in 40 CFR 60, Appendix A, July 1, 1988, and plant production records.

7. Only natural gas fuel shall be used in this plant. Heat input to the dryer shall not exceed 50 MMBtu/hr.

8. The plant shall not cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor.

9. The permittee shall minimize the escape of unconfined emissions by keeping covers on process equipment, prompt clean up of spills within the plant, and cleaning or wetting areas used by vehicles.

10. Before this construction permit expires, the permittee shall sample the plant for particulate matter and fluoride emissions while it is operating as near as practical to its permitted

PERMITTEE:
Farmland Industires, Inc.

Permit No. AC 53-166067
Expiration Date: January 31, 1990

SPECIFIC CONDITIONS

capacity but not below 90% of the permitted capacity and, using the procedures described in 40 CFR 60, Appendix C, determine if the use of the cooler increases the emissions from this plant. The gas pressure drop across the scrubber shall be reported in the compliance test report.

11. The permittee shall notify the Department's Southwest District at least 15 days prior to any compliance test. Compliance testing shall be conducted within 30 days of a change in product (DAP, MAP or GTSP).

12. The permittee shall comply with all applicable requirements of 40 CFR 60 and Chapter 17-2, F.A.C., if the use of the cooler system causes an increase in fluoride emissions.

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

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

Issued this _____ day
of _____, 1989

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

Dale Twachtmann, Secretary

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION



Interoffice Memorandum

FOR ROUTING TO OTHER THAN THE ADDRESSEE.

TO:	DATE:
TO:	DATE:
TO:	DATE:
TO:	DATE:

TO: Willard Hanks, BAQM
 FROM: Cindy Phillips, SW District *clp*
 DATE: June 21, 1989
 SUBJECT: Farmland Industries AC53-160330
 North MAP/DAP/TSP Fertilizer Plant

Enclosed is the drafted operating permit renewal for the referenced source. If you have any questions, please call me.

Cindy Phillips
s/c 552-7612

JUN-21-'89 14:47 ID: D E R TAMPA 4520
 TEL NO: 813-626-1809
 H301 P01



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5561

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary
Dr. Richard Gentry, Deputy Assistant Secretary

PERMITTEE:
Farmland Industries, Inc.
Post Office Box 960
Bartow, FL 33830

PERMIT/CERTIFICATION
Permit No.: A053-160330
County: Polk
Expiration Date: 06/21/94
Project: North MAP/DAP/TSP
Fertilizer Plant

DRAFT

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 & 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:

For the operation of a MAP/DAP/TSP fertilizer plant consisting of the following components: a reactor/blunger system with emissions controlled by a venturi/cyclonic acid scrubber; a natural gas-fired dryer with emissions controlled by a dry cyclone and a venturi/cyclonic acid scrubber; and a mill/screens system with emissions controlled by a dry cyclone and a venturi/cyclonic acid scrubber. The exhausts from the reactor/blunger, dryer, and mill/screens scrubbers are further scrubbed with pond water in a shared cross-flow scrubber, then emitted through a shared stack. The permitted production rates are as follows:

Product	Rate
MAP	70 TPH
GTSP	33.2 TPH
DAP	50 TPH

Location: State Road 640 West, South of Bartow

UTM: 17-409.5E 3079.5N NEDS NO: 0053 Point ID: 29
Replaces Points 19 & 24

Replaces Permit No.: A053-62458
A053-78868

DRAFT

DER Form 17-1.201(5) Page 1 of 4.

JUN-21-'89 14:47 ID: D E R TAMPA 4520

TEL NO: 813-623-1805

#301 F03

PERMITTEE:
Farmland Industries, Inc.

PERMIT NO: A053-160330
PROJECT: North MAP/DAP/TSP
Fertilizer Plant

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Test the emissions for the following pollutant(s) at intervals of 6 months from the date March 28, 1989 and submit a copy of test data to the Air Section of the Southwest District Office within forty-five days of such testing (Subsection 17-2.700(2), F.A.C.):

- (X) Particulates
- (X) Fluorides
- (X) Opacity

DRAFT

Within thirty (30) days of switching production to another one of the three permitted production types, emissions shall be tested for that product type if it has not previously been tested in that current six-month testing interval.

3. The maximum permitted production rate shall be dependent upon the specific product being manufactured as follows:

<u>Product</u>	<u>Production Rate</u>
MAP	70 TPH
GTSP	33.2 TPH
DAP	50 TPH

4. In accordance with the RACT particulate allocation, the maximum allowable particulate emissions for this source shall be 30.2 lbs./hour or as calculated by the Process Weight Table contained in Rule 17-2.610, F.A.C., whichever is less.

5. The maximum allowable fluoride emissions for the source shall be dependent upon the specific product being manufactured as follows:

<u>Product</u>	<u>Allowable Fluoride Emissions</u>
MAP	0.12 lbs./ton P ₂ O ₅
GTSP	8.18 lbs./hour
DAP	0.06 lbs./ton P ₂ O ₅

6. Visible emissions shall not be equal to or greater than 20% opacity in accordance with Subsection 17-2.610(2)(a), F.A.C.

DRAFT

JUN-21-'89 14:48 ID:DER TAMPA 4520

TEL NO:813-625-1809

F001 P03

PERMITTEE:
Farmland Industries, Inc.

PERMIT NO: A053-160330
PROJECT: North MAP/DAP/TSP
Fertilizer Plant

DRAFT

7. Approved compliance testing of emissions shall be conducted while simultaneously operating the reactor/blunger, dryer, and mill/screens within approximately 10% of the permitted capacity. A compliance test submitted at operating levels less than 90% of the permitted capacity will automatically constitute an amended permit at the lesser rate plus 10% until another test (showing compliance) at 90% of a higher capacity is submitted. If the permitted capacity of the plant is exceeded by at least 10%, a compliance test must be performed within thirty (30) days of the initiation of the higher rate and the results of the test shall be submitted to the Department. Acceptance of said test by the Department will automatically constitute an amended permit at the greater rate plus 10%. Emission limitations are not automatically adjusted above the allowable levels established by this permit and/or the design process rate. Failure to submit the input rates or operation at conditions during testing which do not reflect actual operating conditions may invalidate the data (Subsection 403.161(1)(c), Florida Statutes).

8. Compliance with the emission limitations of Specific Conditions No. 4, 5 and 6 shall be determined using EPA Methods 1, 2, 4, 5, 9, and 13 contained in 40 CFR 60, Appendix A and adopted by reference in Section 17-2.700, F.A.C. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Section 17-2.700, F.A.C. and 40 CFR 60, Appendix A.

9. The visible emission compliance test shall be conducted by a certified observer and be a minimum of thirty (30) minutes in duration.

10. The Southwest District Office of the Department of Environmental Regulation shall be notified in writing 15 days prior to compliance testing.

11. No objectionable odors will be allowed as per Subsection 17-2.620(2), F.A.C.

12. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Subsection 17-2.610 (3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling.

DER Form 17-1.201(5) Page 3 of 4.

DRAFT

JUN-21-89 14:48 ID: D E R T H P R 4520

TEL NO: 813-633-1909

H301 P04

BEST AVAILABLE COPY

ISSUE:
Hiland Industries, Inc.

PERMIT NO: A053-160330
PROJECT: North MAP/DAP/TSP
Fertilizer Plant

DRAFT

13. The dryer shall be fired by natural gas only. The normal firing rate is 25M Ft³/hour or 25 MMBTU/hour. ~~_____~~

14. The hours of operation shall be limited to 8760 hours/year.

15. Submit for this source, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information:

- (A) Annual amount of materials and/or fuels utilized.
- (B) Annual emission (note calculation basis).
- (C) Any changes in the information contained in the permit application.

16. An application to renew this operating permit shall be submitted to the Department sixty (60) days prior to the expiration date of this permit.

Issued this _____ day of _____
19__.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

DRAFT

Richard D. Garrity, Ph.D.
Deputy Assistant Secretary

JUN-21-'89 14:49 10:0 E R THIPA 4520

TEL NO: 813-626-1809

H301 P05



FARMLAND INDUSTRIES, INC.

post office box 960 / bartow, florida 33830

June 14, 1989

Mr. Willard Hanks
Central Air Permitting
Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400


Dear Willard,

Enclosed is the information you requested. We have not made any TSP since we changed the system in 1982. Therefore, we do not have any information on this product. We have only made DAP in this system on a few occasions so we have a very limited amount of data on this product. This is mostly a MAP operation.

The current permit does not address an alternate fuel source.

If you have any questions please give me a call.

Sincerely,


C. Gene Meier
Administrator,
Environmental Services

CGM:dr
Enclosures
CGM-57-89

RECEIVED

JUN 15 1989

DER - BAQM

SUMMARY SHEET

PLANT: MAP/DAP/TSP
 STACK: MAP DRYER(NORTH)
 TEST DATE: MARCH 28, 1989

PERMIT # A053-62458
 LIMITS: 30.2 lbs. PARTICULATE/HOUR;
 0.12 lbs. F/TON

	RUN NO. 1 -----	RUN NO. 2 -----	RUN NO. 3 -----	AVERAGE -----
STACK DIAMETER (FT)	7.500	7.500	7.500	7.500
NOZZLE DIAMETER (FT)	0.020	0.020	0.020	0.020
SAMPLING TIME (MIN)	60.000	60.000	60.000	60.000
STACK TEMP (R)	571.000	572.000	572.000	571.667
STACK MOISTURE (%)	9.033	8.889	8.952	8.958
VOLUME SAMPLED (ACF)	38.420	39.525	39.502	39.149
VOLUME SAMPLED (SCF)	37.663	38.331	38.035	38.010
STACK VELOCITY (F/S)	35.836	36.530	36.552	36.306
VOLUMETRIC FLOWRATE (ACFM)	94990.289	96831.469	96890.336	96237.367
VOLUMETRIC FLOWRATE (SCFM)	80664.195	82213.359	82206.398	81694.656
FLUORIDE (MG. COLL.)	11.600	10.800	12.900	11.767
PARTICULATE (MG. COLL.)	48.400	20.000	38.800	35.733
FLUORIDE (LBS/HR)	3.287	3.065	3.689	3.347
PARTICULATE (LBS/HR)	13.714	5.675	11.095	10.161
STACK GAS MOL. WEIGHT	28.916	28.933	28.926	28.925
ISOKINETIC VARIATION %	105.038	104.887	104.085	104.670
PRODUCTION RATE (TPH, P205)	33.800	33.800	33.800	33.800
FLUORIDE (LB/HR/TON)	0.097	0.091	0.109	0.099
PARTICULATE (LB/HR/TON)	0.406	0.168	0.328	0.301

Feed Rate

29.51 TPH P₂O₅

SUMMARY SHEET

ENCLOSURES 14

PLANT: IAP/MAP/TSP
 STACK: MAP DRYER(NORTH)
 TEST DATE: NOVEMBER 18, 1987

PERMIT # A053-62458
 LIMITS: 30.2 lbs. PARTICULATE/HOUR;
 0.12 lbs. P/TON

	<u>RUN NO. 1</u>	<u>RUN NO. 2</u>	<u>RUN NO. 3</u>
STACK DIAMETER (FT)	7.500	7.500	7.500
NOZZLE DIAMETER (FT)	0.020	0.020	0.020
SAMPLING TIME (MIN)	60.000	60.000	60.000
STACK TEMP (R)	561.000	562.000	562.000
STACK MOISTURE (%)	7.286	6.958	6.975
VOLUME SAMPLED (ACF)	31.052	33.287	33.620
VOLUME SAMPLED (SCF)	31.406	33.005	32.917
STACK VELOCITY (F/S)	31.602	33.112	33.411
VOLUMETRIC FLOWRATE (ACFM)	83769.438	87770.070	88543.633
VOLUMETRIC FLOWRATE (SCFM)	73818.297	77479.453	78165.563
FLUORIDE (MG. COLL.)	10.780	10.800	11.130
PARTICULATE (MG. COLL.)	76.800	86.600	59.900
FLUORIDE (LBS/HR)	3.352	3.354	3.497
PARTICULATE (LBS/HR)	23.882	26.896	18.818
STACK GAS MOL. WEIGHT	29.126	29.165	29.163
ISOKINETIC VARIATION %	99.740	99.863	98.725
PRODUCTION RATE (TPH, P205)	28.000	28.000	28.000
FLUORIDE (LB/HR/TON)	0.120	0.120	0.125
PARTICULATE (LB/HR/TON)	0.853	0.961	0.672

Feed Rate

28.57 TPH P₂O₅

SUMMARY SHEET

PLANT: ^{CAP}DDP MAP TSP
 STACK: DRYER
 TEST DATE: APRIL 27, 1984

PERMIT # A053-78868

	RUN NO. 1 -----	RUN NO. 2 -----	RUN NO. 3 -----
STACK DIAMETER (FT)	7.500	7.500	7.500
NOZZLE DIAMETER (FT)	0.025	0.025	0.025
SAMPLING TIME (MIN)	60.000	60.000	60.000
STACK TEMP (R)	568.000	565.000	565.000
STACK MOISTURE (%)	7.625	7.176	7.411
VOLUME SAMPLED (ACF)	43.376	47.294	45.930
VOLUME SAMPLED (SCF)	42.226	45.088	43.543
STACK VELOCITY (F/S)	27.612	29.920	29.053
VOLUMETRIC FLOWRATE (ACFM)	73191.086	79309.422	77012.180
VOLUMETRIC FLOWRATE (SCFM)	63030.719	68996.289	66827.672
FLUORINE (MG. COLL.)	3.200	4.230	4.570
PARTICULATE (MG. COLL.)	66.300	45.700	79.000
FLUORINE (LBS/HR)	0.632	0.856	0.928
PARTICULATE (LBS/HR)	13.093	9.252	16.041
STACK GAS MOL. WEIGHT	28.161	28.211	28.185
ISOKINETIC VARIATION %	100.487	98.020	97.734
PRODUCTION RATE (TPH, P205)	20.800	20.800	20.800
EMISSIONS 1 (LB/HR/TON) ^{F?}	0.030	0.041	0.045
EMISSIONS 2 (LB/HR/TON) ^{em?}	0.629	0.445	0.771

Feed Rate

21.22



RECEIVED
DER - MAIL ROOM

1989 JUN -7 AM 11: 19

FARMLAND INDUSTRIES, INC.

post office box 960 / bartow, florida 33830

June 6, 1989

Mr. Bill Thomas
Central Air Permitting
Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Dear Bill,

Enclosed is an application to install a cooler in our MAP production plant. We have scheduled a plant turnaround the week of July 24th. and hope we can receive the permit by that time.

If you have any questions please give me a call.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Gene Meier".

C. Gene Meier
Administrator,
Environmental Services

CGM:dr
Enclosures

CGM-56-89

1031

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

#200 pd.
6-7-89
Receipt # 11762

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



AC 53-166067

BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: TSP/MAP/DAP Cooler [] New¹ [X] Existing¹

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

COMPANY NAME: Farmland Industries, Inc. COUNTY: Polk

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Airetron Wet Scrubber

SOURCE LOCATION: Street S.R. 640 West - P. O. Box 960 City Bartow

UTM: East 17-409.5 North 3079.5

Latitude 27 ° 50 ' 37 "N Longitude 81 ° 56 ' 05 "W

APPLICANT NAME AND TITLE: C. M. Farris - General Manager, Fertilizer Phosphate Mfg.

APPLICANT ADDRESS: P. O. Box 960 - Bartow, Florida 33830

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Farmland Industries, Inc.

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

*Attach letter of authorization

Signed: *C. M. Farris*

C. M. Farris, General Manager, Fertilizer
Name and Title (Please Type) Phosphate Mfg.

Date: 6-5-89 Telephone No. (813) 533-1141

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

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

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



Signed *U. K. Custred*
U. K. Custred
Name (Please Type)
Farmland Industries, Inc.
Company Name (Please Type)
P. O. Box 960 - Bartow, Florida 33830
Mailing Address (Please Type)

Florida Registration No. 8166 Date: 6-5-89 Telephone No. (813) 533-1141

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.

Install a cooler to reduce temperature of fertilizer products prior to loading
into railcars for shipment to the Mid-West Co-op locations. Material that is
not cooled tends to form lumps and will not unload properly.

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

Start of Construction July 24, 1989 Completion of Construction August 4, 1989

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.)

Total project cost \$350,000
Cost of cyclone \$75,000

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

Operating permits A053-160330, A053-160331

E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 50 ;
if power plant, hrs/yr _____ ; if seasonal, describe: _____

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

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

- H. Do "Reasonably Available Control Technology" (RACT) requirements apply
to this source? NO
- a. If yes, for what pollutants? _____
 - b. If yes, in addition to the information required in this form,
any information requested in Rule 17-2.650 must be submitted.

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

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

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
30% Phos Acid	Fluoride	2.11	11,093	
54% Phos Acid	Fluoride	2.14	53,000	
Anhydrous Ammonia	Nitrogen	82.26	15,824	

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

1. Total Process Input Rate (lbs/hr): 79,916
2. Product Weight (lbs/hr): 130,000 MAP

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

Name of Contaminant	Emission ¹		Allowed Emission ² Rate per Rule 17-2	Allowable ³ Emission lbs/hr	Potential ⁴ Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Fluoride	2.10	7.63		4.5			
Particulate							
Dryer and Cooler	19.28	70.10		30.2			

¹See Section V, Item 2.

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

³Calculated from operating rate and applicable standard.

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

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Airetron Wet Scrubber	Fluoride	98.9		Design Data
Cross Flow (Tailgas) Scrubber	Fluoride	60.0		
Cyclones	Particulate	85.3	1 - 990	Design Data

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
Gas	25	50	20

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

Fuel Analysis:

Percent Sulfur: _____ Percent Ash: _____

Density: _____ lbs/gal Typical Percent Nitrogen: _____

Heat Capacity: _____ BTU/lb _____ BTU/gal

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

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

Annual Average _____ Maximum _____

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

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

Stack Height: 129' ft. Stack Diameter: 7.5 ft.
 Gas Flow Rate: 105,345 ACFM 89,458 DSCFM Gas Exit Temperature: 130 °F.
 Water Vapor Content: 5.0 % Velocity: 40 FPS

SECTION IV: INCINERATOR INFORMATION

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

Description of Waste _____

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

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

Manufacturer _____

Date Constructed _____ Model No. _____

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

Stack Height: _____ ft. Stack Diameter: _____ Stack Temp. _____

Gas Flow Rate: _____ ACFM _____ DSCFM* Velocity: _____ FPS

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

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

Brief description of operating characteristics of control devices: _____

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

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

SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

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

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

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY

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

Yes No

Contaminant	Rate or Concentration

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

Yes No

Contaminant	Rate or Concentration

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

Contaminant	Rate or Concentration

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

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

*Explain method of determining

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

10. Stack Parameters

a. Height:

ft.

b. Diameter:

ft.

c. Flow Rate:

ACFM

d. Temperature:

°F.

e. Velocity:

FPS

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

1.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

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

2.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

¹Explain method of determining efficiency.

²Energy to be reported in units of electrical power - KWH design rate.

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

3.

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

4.

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

F. Describe the control technology selected:

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

¹Explain method of determining efficiency.

²Energy to be reported in units of electrical power - KWH design rate.

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant	Rate or Concentration

(8) Process Rate:¹

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant	Rate or Concentration

(8) Process Rate:¹

10. Reason for selection and description of systems:

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

SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION

A. Company Monitored Data

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

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

Other data recorded _____

Attach all data or statistical summaries to this application.

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

2. Instrumentation, Field and Laboratory

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

B. Meteorological Data Used for Air Quality Modeling

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

C. Computer Models Used

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

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

D. Applicants Maximum Allowable Emission Data

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

E. Emission Data Used in Modeling

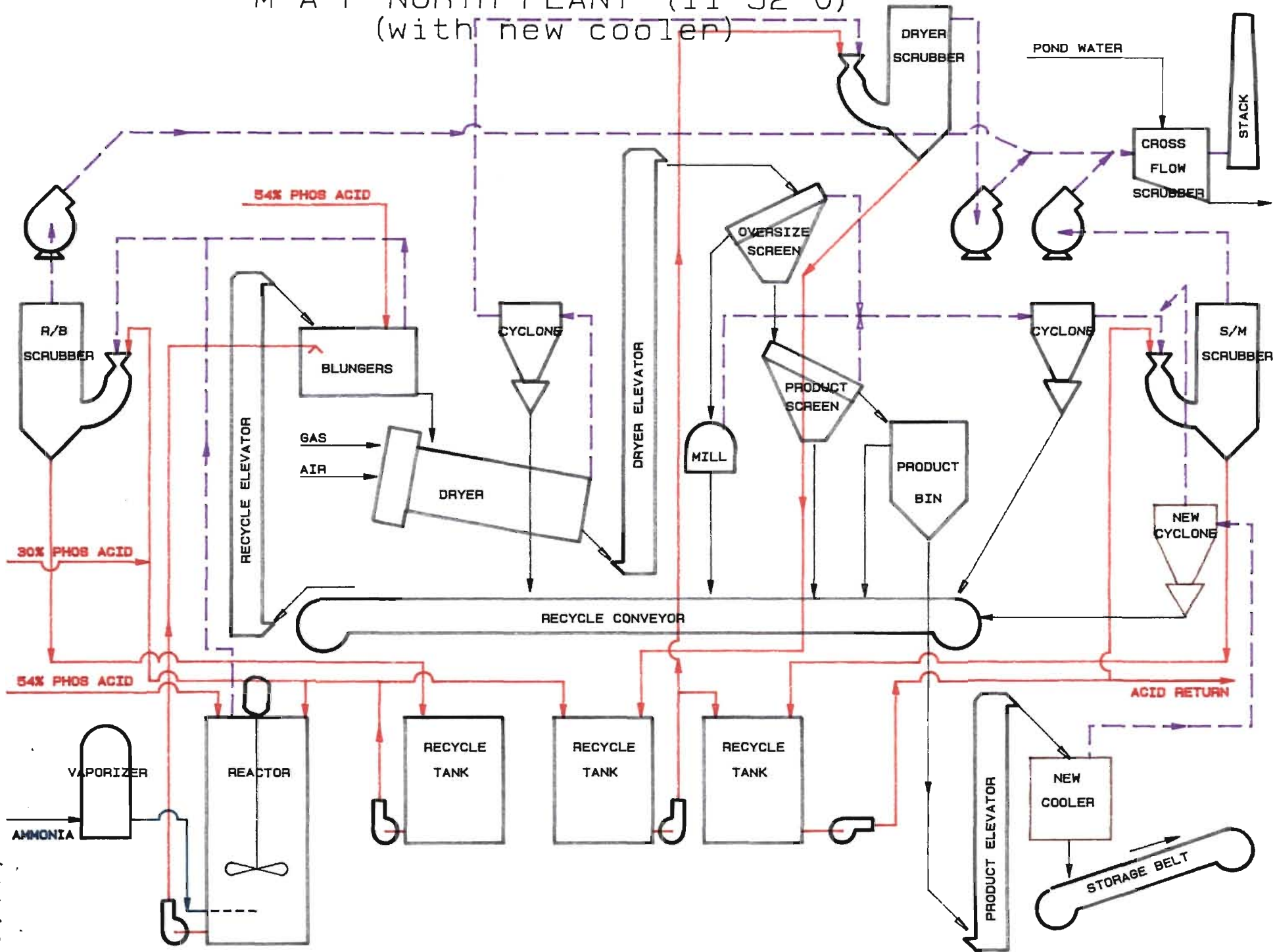
Attach list of emission sources. Emission data required is source name, description of point source (on NEDS point number), UTM coordinates, stack data, allowable emissions, and normal operating time.

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

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

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

M A P NORTH PLANT (11-52-0)
(with new cooler)



BEST AVAILABLE COPY

FORM OF PAYMENT				SERVICES			
CASH <input type="checkbox"/> GBL <input type="checkbox"/>		FCGOD <input type="checkbox"/>		UNITED STATES / CANADA		INTERNATIONAL	
PPD <input checked="" type="checkbox"/> COL <input type="checkbox"/> OTH <input type="checkbox"/> COMAT <input type="checkbox"/>				Same Day <input type="checkbox"/>	Courier Express <input type="checkbox"/>	Business Documents <input type="checkbox"/>	
Shipper's Account Number				Next Morning <input type="checkbox"/>	Air Cargo <input type="checkbox"/>	Customs Clearance <input type="checkbox"/>	
990280125				Second Day <input type="checkbox"/>	Saturday Delivery <input type="checkbox"/>	Air Economy <input type="checkbox"/>	Delivery <input type="checkbox"/>
E				Date	Origin	Shipment Number	
				6-6-89		221744889 3	
From: Gene Meier (813) 533-1141				To: Mr. Bill Thomas			
Farmland Industries, Inc.				Department of Environmental Regulation			
SR 640				2600 Blair Stone Road			
Bartow FL.				Tallahassee, FL USA			
Customer's Reference Numbers				Consignee's Account Number			
Zip 33830				Zip 32399			
Description				FOR INFORMATION OR RATES CALL 1-800 HI EMERY			
Pcs. Dimensions (L W H)				Declared Value \$			
1							
SR <input type="checkbox"/> Haz Mat <input type="checkbox"/> Edit <input type="checkbox"/>				Total Pieces Total Weight (in Lbs.)			
A B C D E F G				1 2 3 4 5 6			
H				7 8 9 0 1 2			
I				Envelope Pack			
J				9X12 12X15			
K							
Additional Shipments		Third Party Account Number		<div style="font-size: 48px; text-align: center;">324 A</div> <p style="text-align: center;">Terms and Conditions on Back</p>			
Commodity Code		E					
International Customs Value		International Insurance					
Total Transportation Charges		Other Charges/Advance at Origin					
		OC/AO		\$			



Emery & Purolator will collect consignee's check made payable only to the shipper for the value of the goods in the amount shown above.



Cooler

Mr. Sandy Wolfe
GEESI Ref. No.: P-51027/Rev. 2
January 27, 1989
Page Two

EQUIPMENT RECOMMENDED

Item 1: One (1) GEESI Model No. 88 CG-37 Cyclone Collector complete R2
(BASE) with volute, individual hopper cones, and flanges on inlet and gas and dust outlets. Dimensions are shown on GEESI Drawing Number P-51027-02/R1. The collector will be fabricated from mild steel plate, 3/16", unless noted. Support brackets and inspection plug at each hopper discharge are included.

Item 1: Two (2) GEESI Model No. 62 CG-37 Cyclone Collector complete R2
(ALTERNATE) with volute, individual hopper cones, and flanges on inlet and gas and dust outlets. Dimensions are shown on GEESI Drawing Number P-51027-01. The collector will be fabricated from mild steel plate, 3/16", unless noted. Support brackets and inspection plug at each hopper discharge are included.

Item 2: Two (2) GEESI Model No. 8.0 x 10.0-4 Econo-Flow Coolers, with four (4) retaining trays, each provided with one (1) Eriez P-40 electromagnetic vibrator and controls consisting of an R2 on/off switch and a potentiometer to adjust intensity from 0 to 100%. The shell will be fabricated from 3/16" mild steel plate

Each cooling level will be provided with quick access doors suited with Neoprene foam rubber.

Dimensions and flanged connections are shown on GEESI Drawing Number P-51027-02/R1. R2

The equipment will be all welded construction unless flanges are shown on referenced drawings.

The collector will be shipped in fewest number of pieces, consistent with shipping and handling.

Bolts and gaskets to connect this equipment to equipment by others are not included.

MATERIALS OF CONSTRUCTION (Items 1 and 2)

All elements to be low carbon steel similar to ASTM A-36, abrasion resistant liners not included. All mill scale and other surface contaminants and paint will be removed with good grade rust inhibitive primer suitable for epoxy final coat, to a minimum dry thickness of 2 mils. Buyer to supply the final coat of paint.



Mr. Sandy Wolfe
GEESI Ref. No.: P-51027/Rev. 2
January 27, 1989
Page Three

PERFORMANCE GUARANTEE

Draft Loss

When operating at the conditions specified under NORMAL OPERATING CONDITIONS, the pressure drop across the equipment, when measured as a difference of static between inlet and outlet flanges, will not exceed:

- Econo-Flow Cooler: 9" W.G.
- Cyclone (BASE or ALTERNATE): 4.0" W.G. R2

ESTIMATED CYCLONE COLLECTION PERFORMANCE R2

The estimated cyclone collection performance is as follows:

	Fractional Efficiency Curve	Estimated Overall Efficiency Assuming an Average Particle Size of 17.5 Microns
BASE (One 88 CG-37)	PTC28.140 PF.3	90.5%
ALTERNATE (Two 62 CG-37)	PTC28.210 PF.3	96.4%

Please note the performance improvement when using two smaller cyclones instead of one larger cyclone.

DELIVERY

Drawings for approval will be shipped approximately two to three weeks after order. Equipment will be shipped approximately ten to twelve weeks after receipt of approval drawings.

PRICES

F.O.B. shop.

Item 1 (Base): One (1) Cyclone as Described \$ 29,000.00 R2
(TWENTY-NINE THOUSAND DOLLARS)

Item 1 (Alt.): Two (2) Cyclones as Described \$ 38,000.00 R2
(THIRTY-EIGHT THOUSAND, FIVE HUNDRED DOLLARS)

Item 2: Two (2) Coolers with Eight (8) Vibrators and Timer as
Described \$ 54,000.00 R2
(FIFTY-FOUR THOUSAND DOLLARS)

Combined Order For:

Item 1 (Base) and Item 2: One (1) Cyclone and Two (2) Coolers
with Eight (8) Vibrators and Controls as
Described \$ 77,000.00 R2
(SEVENTY-SEVEN THOUSAND DOLLARS)



Mr. Sandy Wolfe
GEESI Ref. No.: P-51027/Rev. 2
January 27, 1989
Page Four

PRICES (Continued)

Item 1 (ALTERNATE) and Item 2: Two (2) Cyclones and Two (2) Coolers
with Eight (8) Vibrators and Controls as
Described \$ 86,000.00 R2
(EIGHTY-SIX THOUSAND DOLLARS)

Estimated Freight to Jobsite (Assuming No Permits Required) \$ 400.00 R2
PER TRUCK
(FOUR HUNDRED DOLLARS)

TERMS OF PAYMENT


10% With Order
90% Upon Shipment

The proposal is subject to acceptance by February 6, 1989.

Our proposal is submitted only in accordance with General Electric
Environmental Services, Inc., Standard Conditions for Equipment Sales, Form
No. CA010/0483, which is attached and made a part of our proposal. Any
order submitted to us, based on this proposal, is subject to acceptance and
acknowledgement to you of such acceptance by our headquarters office in
Lebanon, Pennsylvania.

Should you require any additional information, please feel free to contact
either Mr. Ed Tenney or me.

Very truly yours,


Benjamin Martinez
Manager Domestic Sales
Mechanical Collector Group

BM/vep

cc: T. Pletcher
E. Tenney

Attachments

59 C P ENVIRONMENTAL
FARMLAND INDUSTRIES, INC.

Post Office Box 960 / Bartow, Florida 33830

Cyclone

REQUEST FOR QUOTATION

BEST AVAILABLE COPY

(This is NOT a Purchase Order)

C.P. Environmental Filters, Inc.
 Attn: Mr. Roger Selby
 P.O. Box 392
 Lisle, Ill. 60532

Inquiry No.: 9-045

Date: 1/20/89

Your quotation will not be
 accepted after 4:30 p.m. on
 February 7, 1989

Will you please quote price, terms, f.o.b. and best possible delivery to
 Farmland Industries, Inc. - Bartow, Florida.

Quantity	Description													
1	<p>Please quote per the following attached sheets.</p> <p>Model #CF-90-123-With Large Dust Trap-7 ga. carbon steel</p> <p>Parameters: 40,000 ACFM @ 165° F. Inlet Pressure - 10" W.C. Inlet Duct Load - .7 grains/cu. ft. (= 0.1#/1000 ft³) Specific Gravity - 2.4 Size - Micron - 39 mils Gas Density - lb/cu. ft. = .0652 Pressure Drop = 3.564" W.C. Specific Gravity- PC = 2.057</p> <table border="1" data-bbox="267 1287 617 1489"> <thead> <tr> <th>EFFICIENCY</th> <th>MICRON</th> </tr> </thead> <tbody> <tr> <td>97%</td> <td>39</td> </tr> <tr> <td>92%</td> <td>32</td> </tr> <tr> <td>87%</td> <td>20</td> </tr> <tr> <td>65%</td> <td>10</td> </tr> <tr> <td>0%</td> <td>1</td> </tr> </tbody> </table>	EFFICIENCY	MICRON	97%	39	92%	32	87%	20	65%	10	0%	1	<p>\$9,499.00</p> <p><i>Table shown. 209' high</i></p> <p><i>Body 1000' x 1000'</i></p>
EFFICIENCY	MICRON													
97%	39													
92%	32													
87%	20													
65%	10													
0%	1													

(Note: If minor increase in above quantities would benefit customer, please quote as an alternate)

Remarks:

FOB: Chgo.
 TERMS: NET 30
 DELY: 6 weeks

In your reply, please refer to our above INQUIRY NUMBER

CONDITIONS:

A. If you offer alternate or substitute please indicate by showing mfr. model, catalog no., etc.

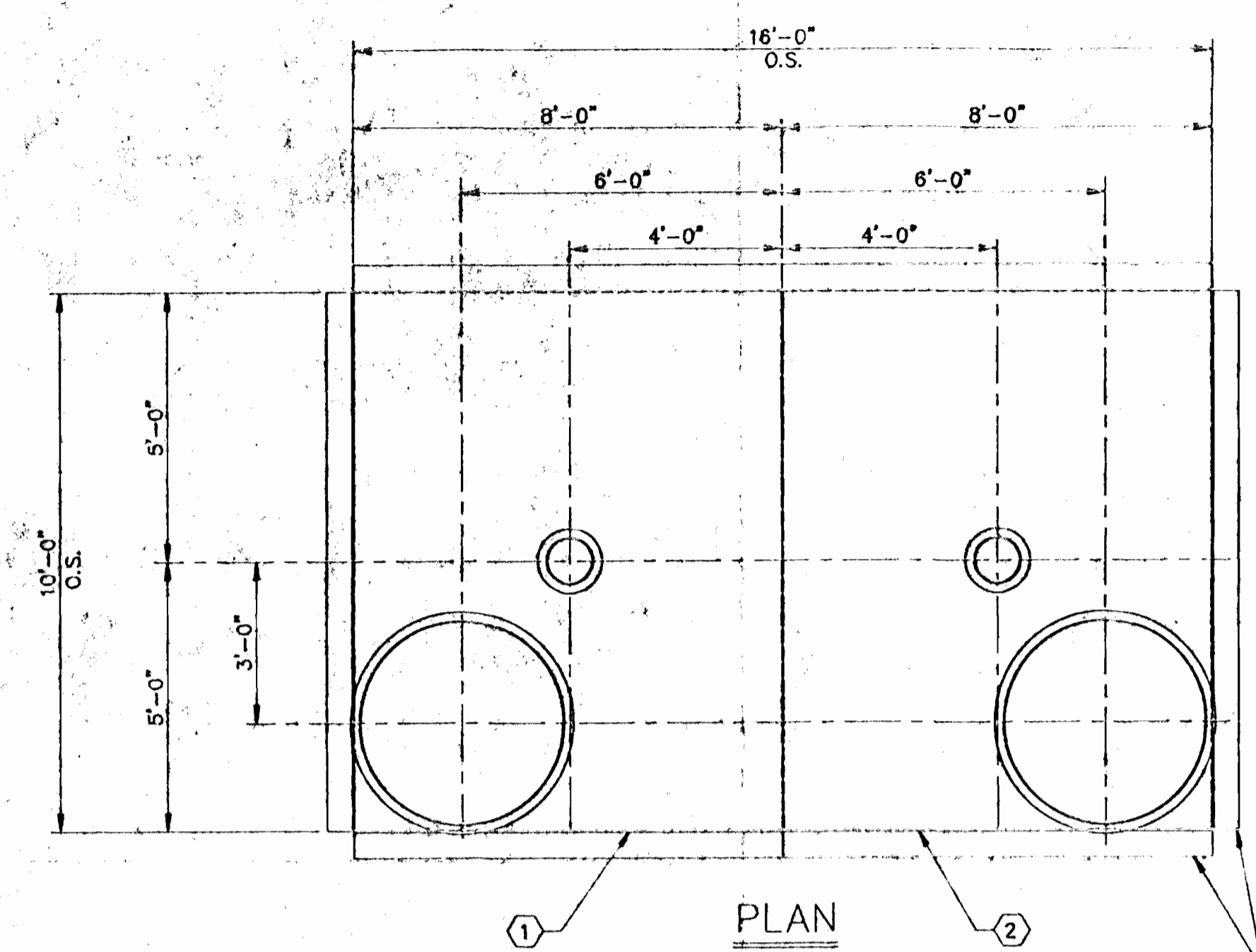
B. THIS QUOTATION PREPARED BY

Tim Carr - 2/2/89
 (Please Sign & Date)

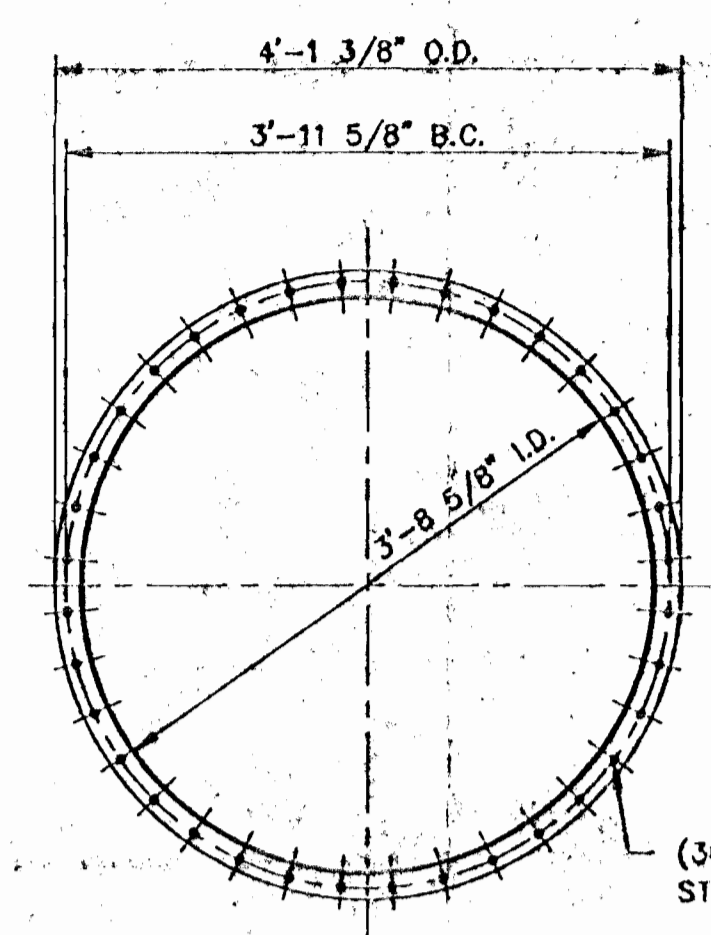
FARMLAND INDUSTRIES, INC.

Sandy Wolfe
 Purchasing Department

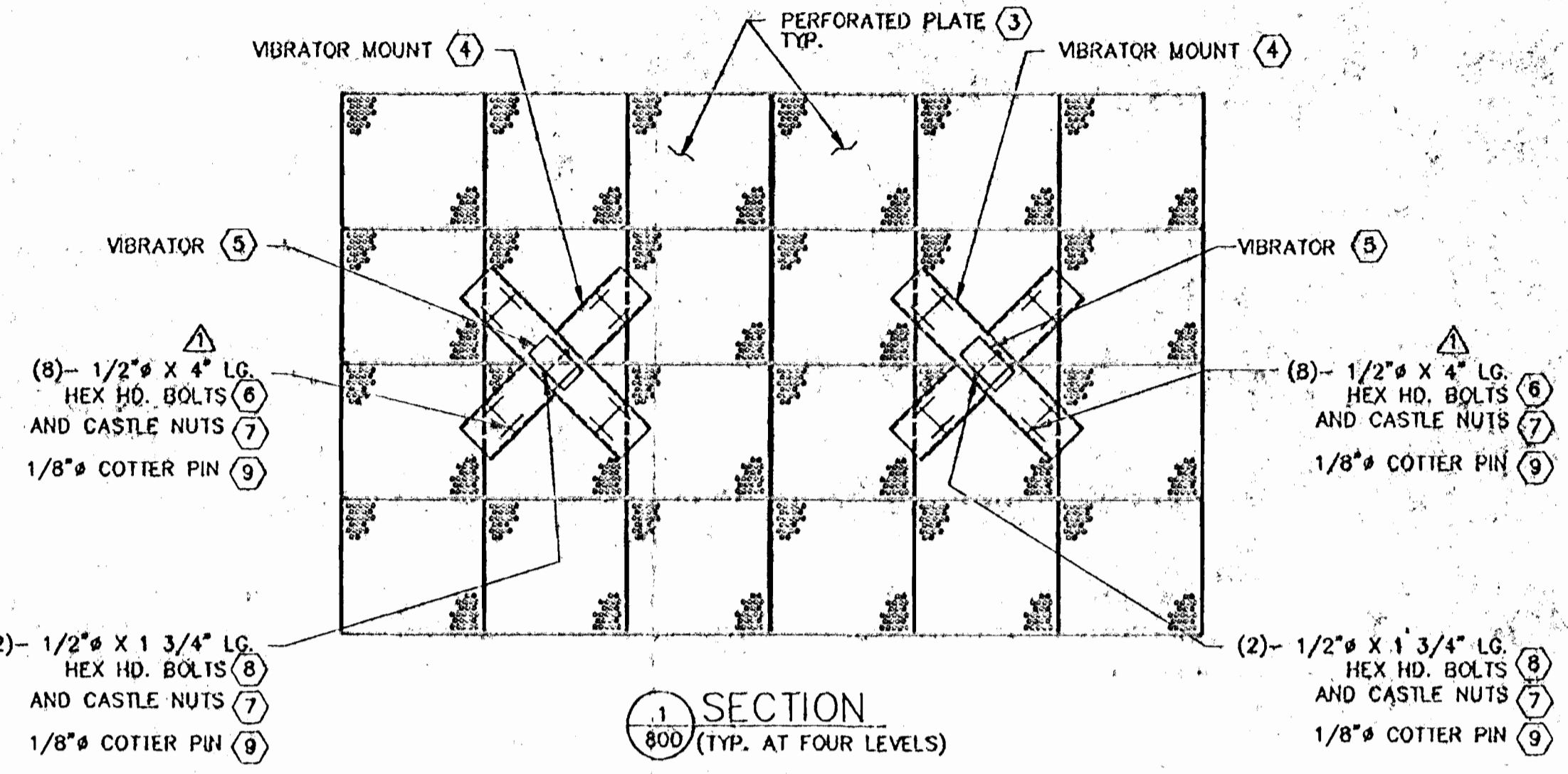
(312) 985-4800



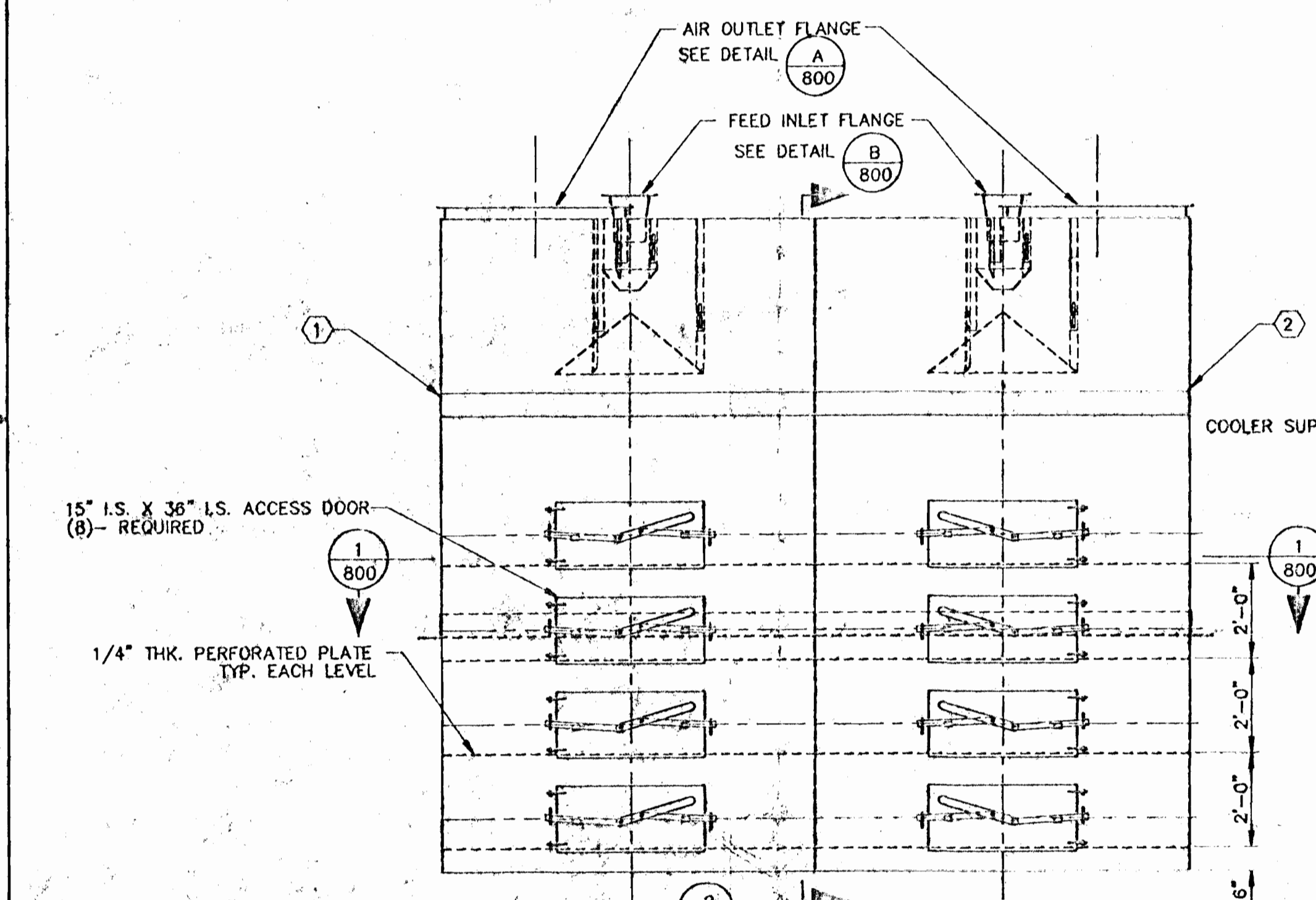
PLAN



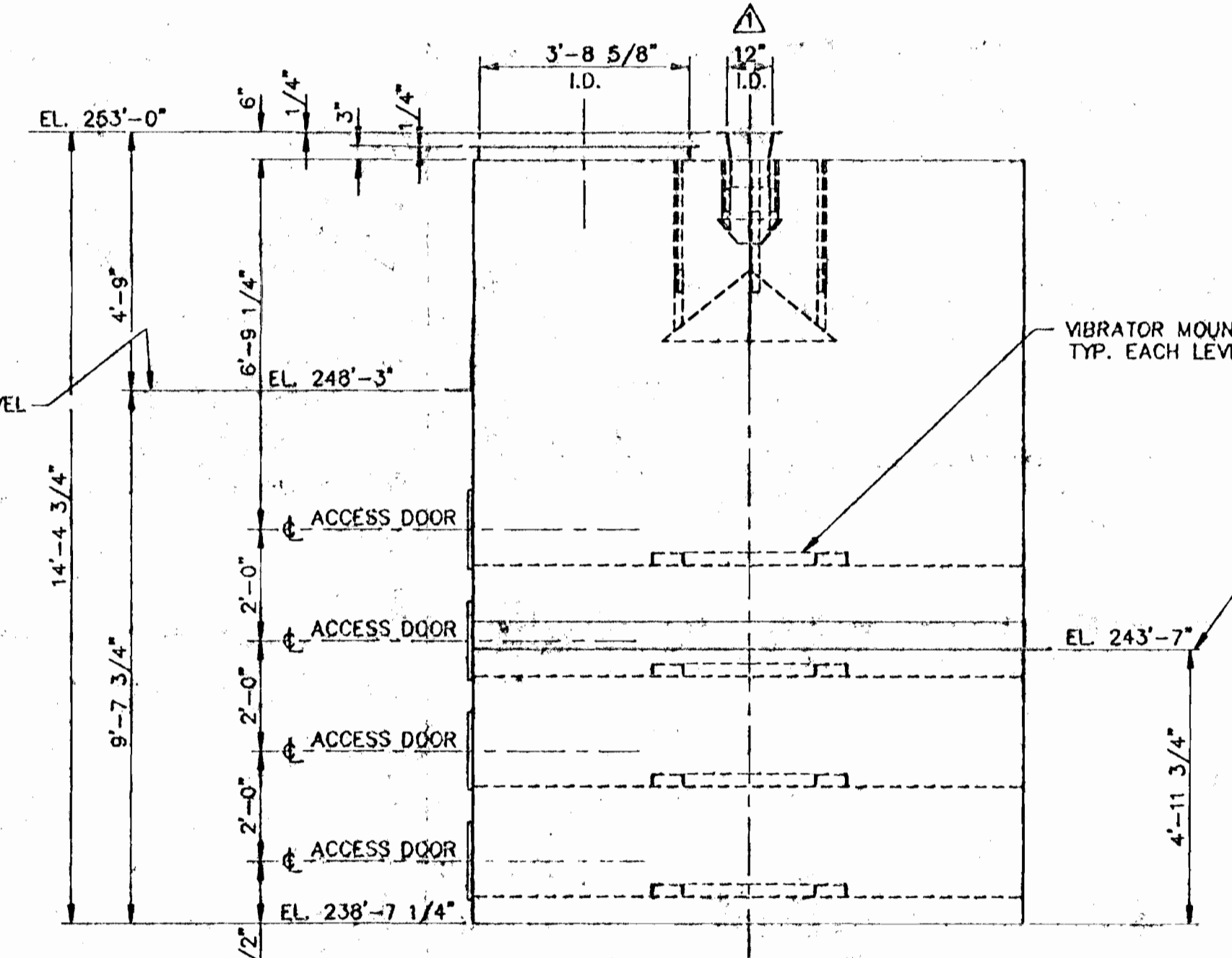
DETAIL AIR OUTLET FLANGE



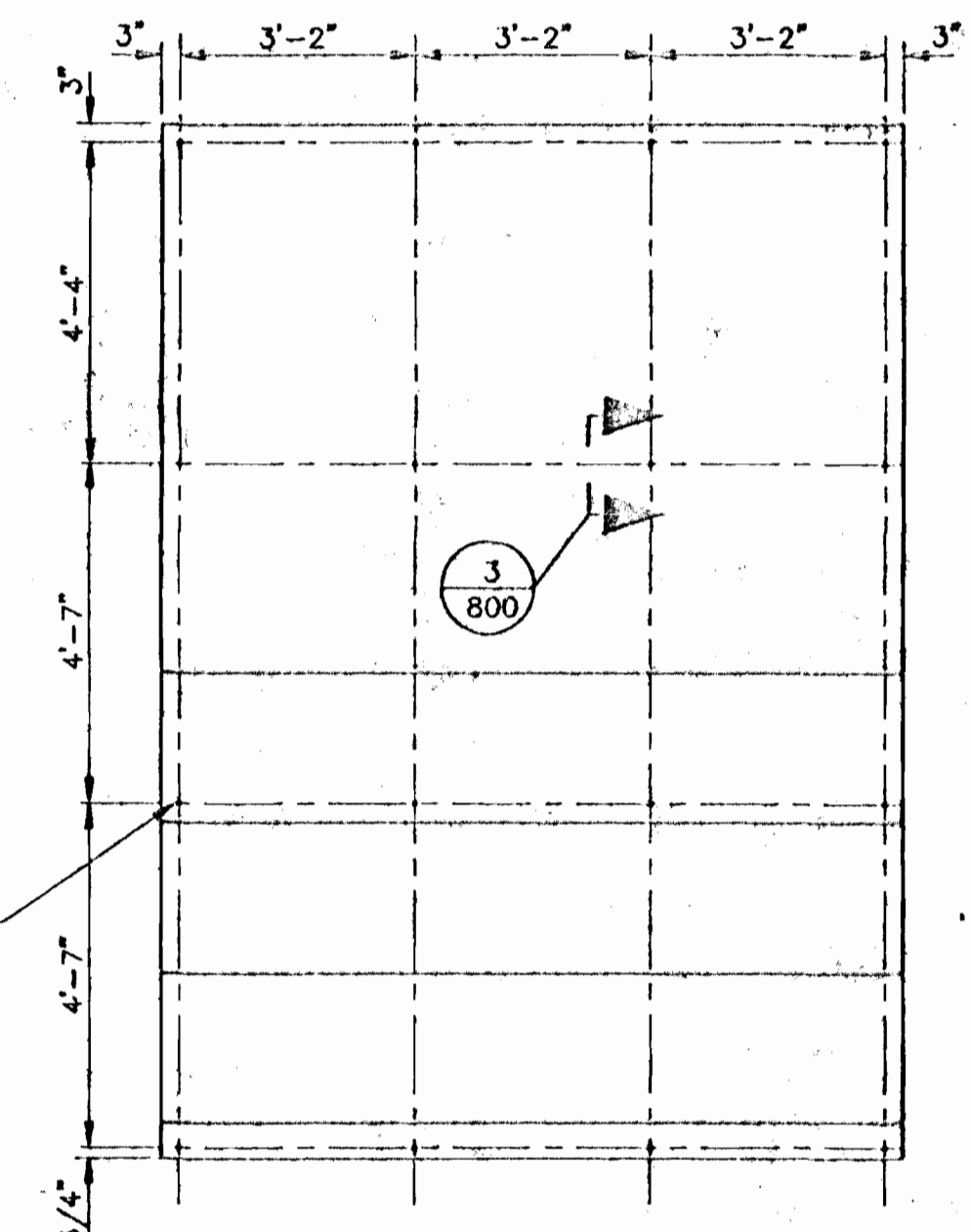
SECTION 1 (TYP. AT FOUR LEVELS)



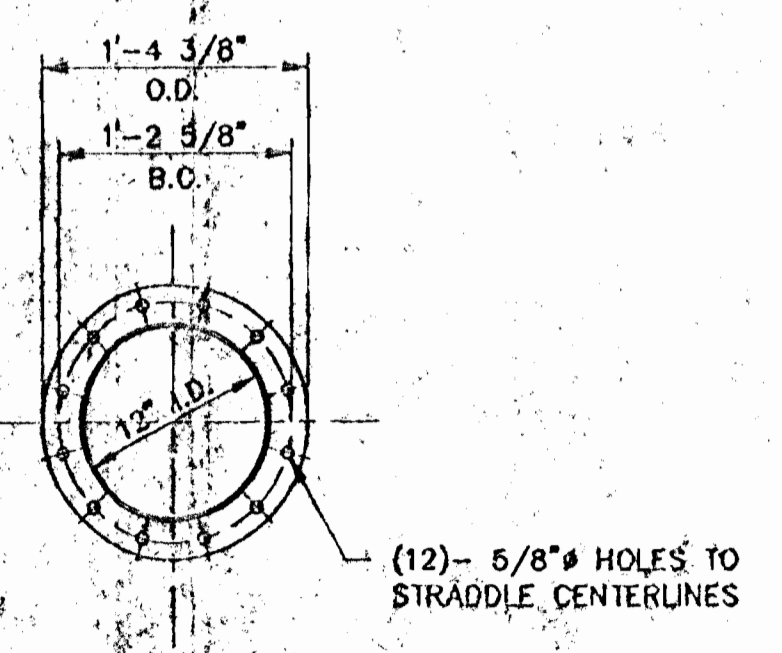
FRONT ELEVATION



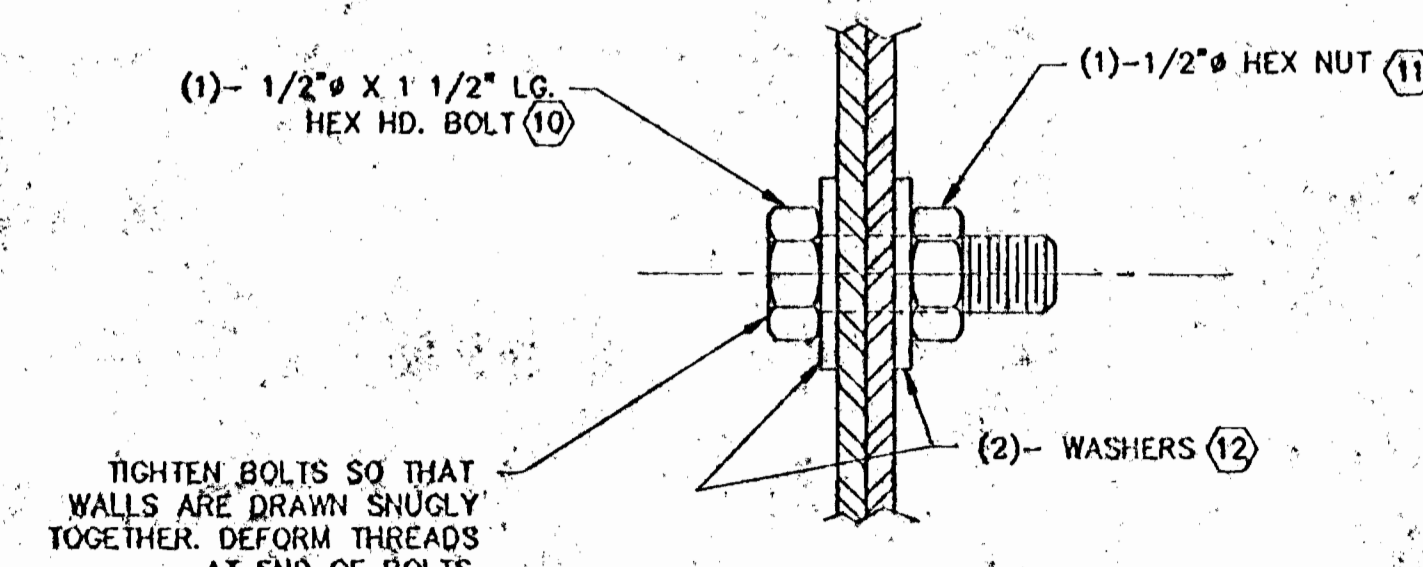
SIDE ELEVATION



SECTION 2



DETAIL B FEED INLET FLANGE



SECTION 3 (TYP. 16 PLACES)

- NOTES:
1. ALL PLATE TO BE 3/16" THK. MILD STEEL UNLESS NOTED.
 2. WELDED CONSTRUCTION UNLESS NOTED.
 3. NO BOLTS, NUTS OR GASKETS FURNISHED FOR CONNECTIONS TO EQUIPMENT BY OTHERS.
 4. JOINTS AND SEAMS TO BE GAS TIGHT.
 5. ALL OUTSIDE SURFACES TO HAVE ALL LOOSE MILL SCALE AND OTHER SURFACE CONTAMINANTS REMOVED BY HAND TOOL, POWER TOOL, AND/OR SOLVENT CLEANING AND BE PAINTED WITH ONE SHOP COAT OF PHENOLIC ALKYL TYPE PRIMER (M.A.B. #24-R-5, OR APPROVED EQUAL) WITH A MINIMUM DRY FILM THICKNESS OF 2 MILS.
 6. DEAD LOAD OF UNIT = 16,700g.

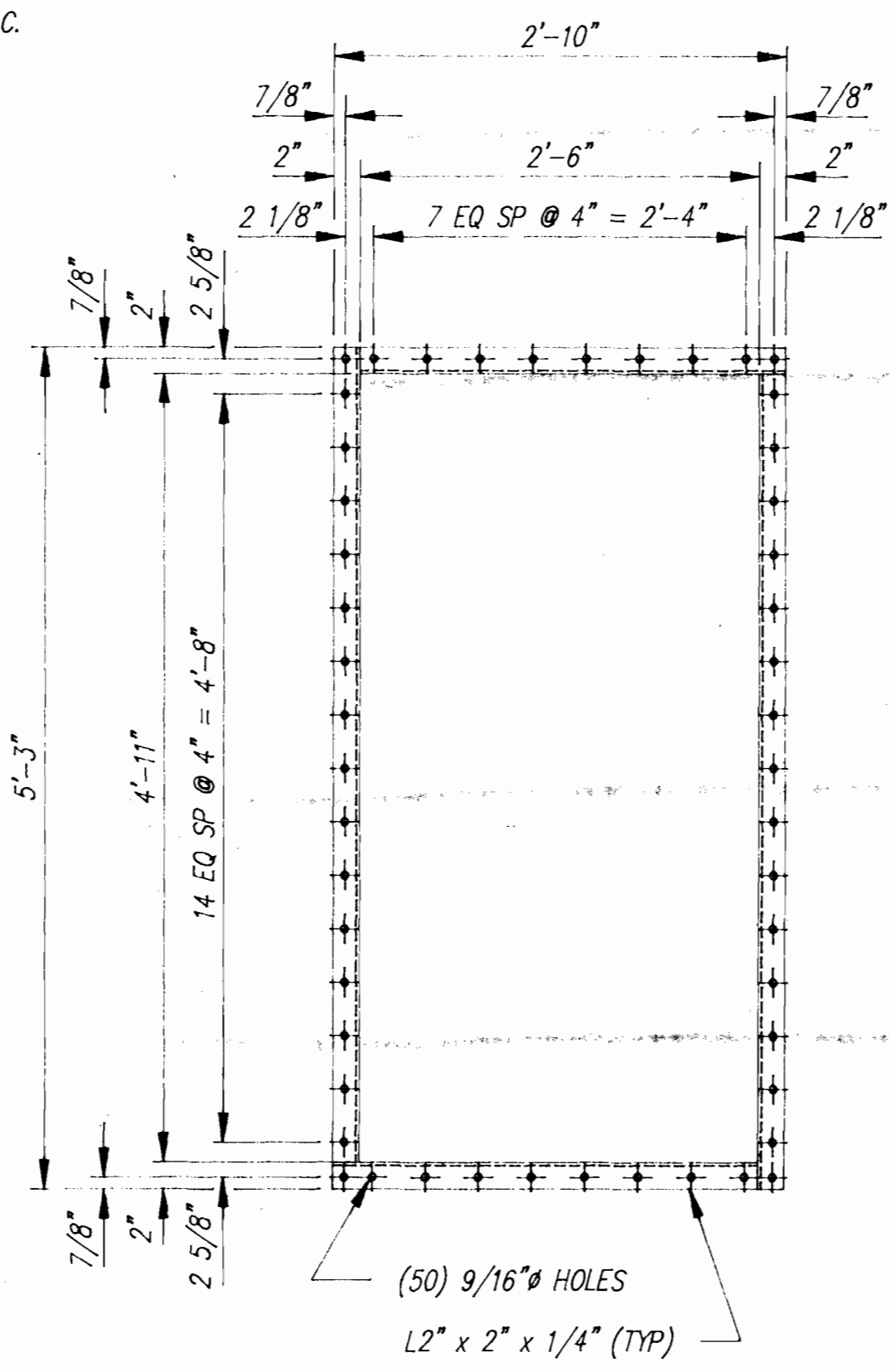
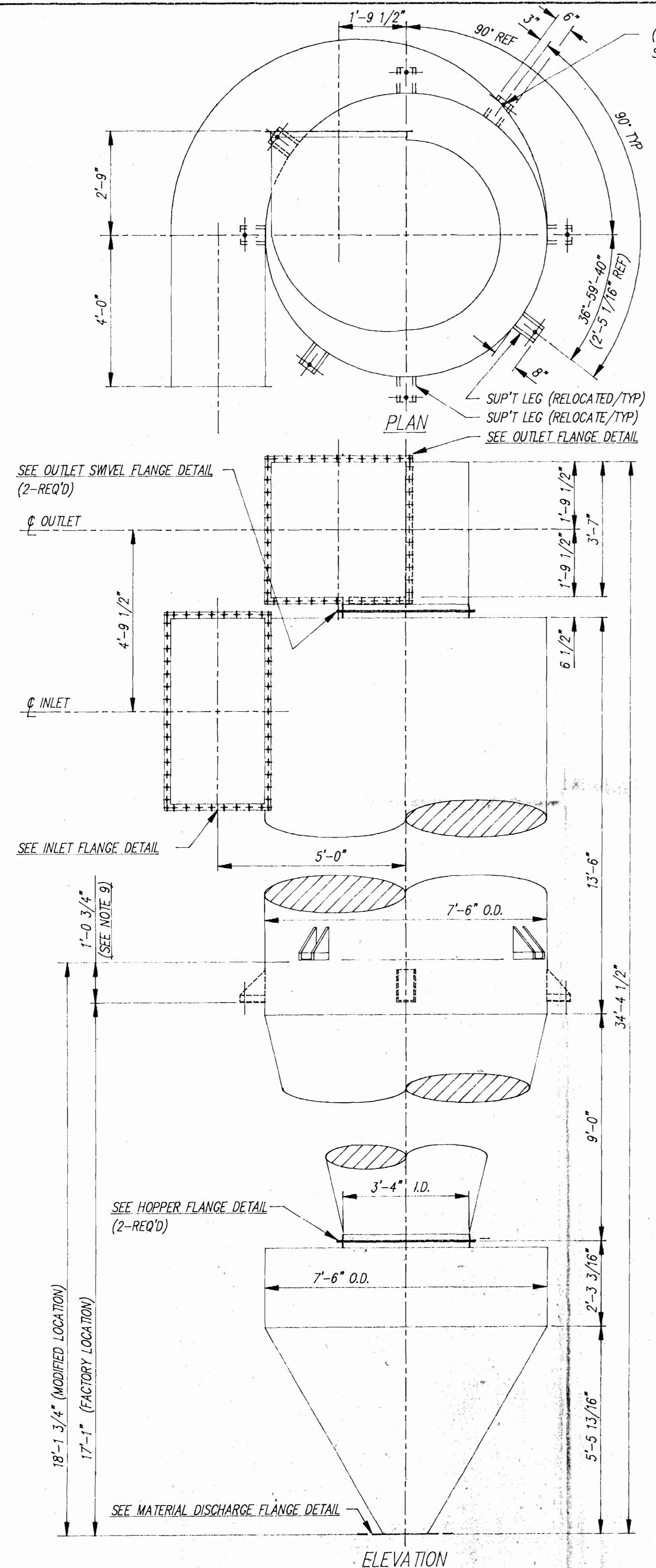
FOR RECORD

GE Environmental Systems
 OVERALL DIMENSIONS
 2- MODEL 8.0 X 10.0 - 4
 ECONO-FLOW COOLERS

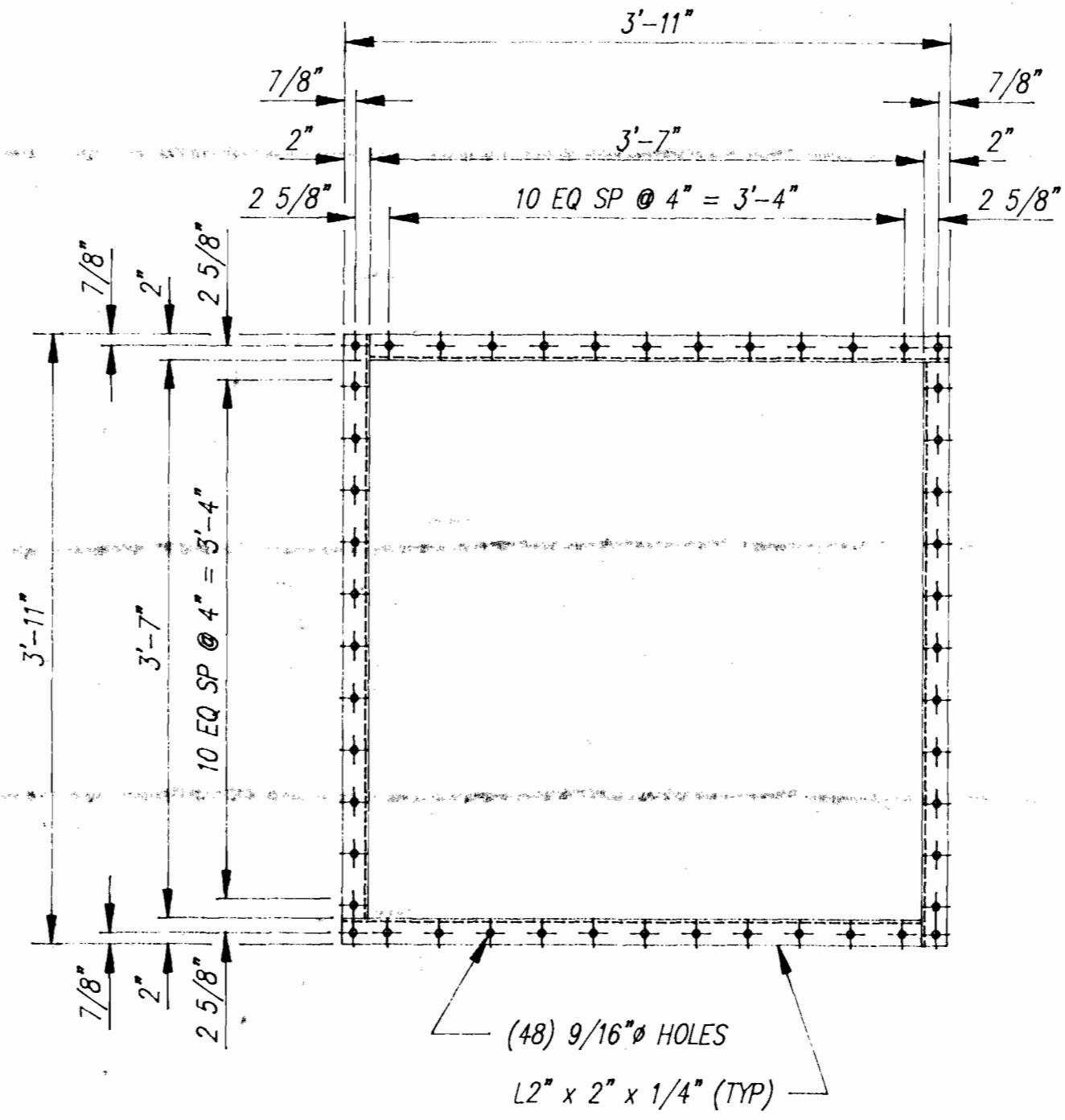
FOR: FARMLAND INDUSTRIES, INC.

REVISION	DESCRIPTION	DATE	BY	CHECKED
1	REVISED FEED INLET	10-2-89	JEG	JEG
2	DRAWN	10-2-89	JEG	JEG

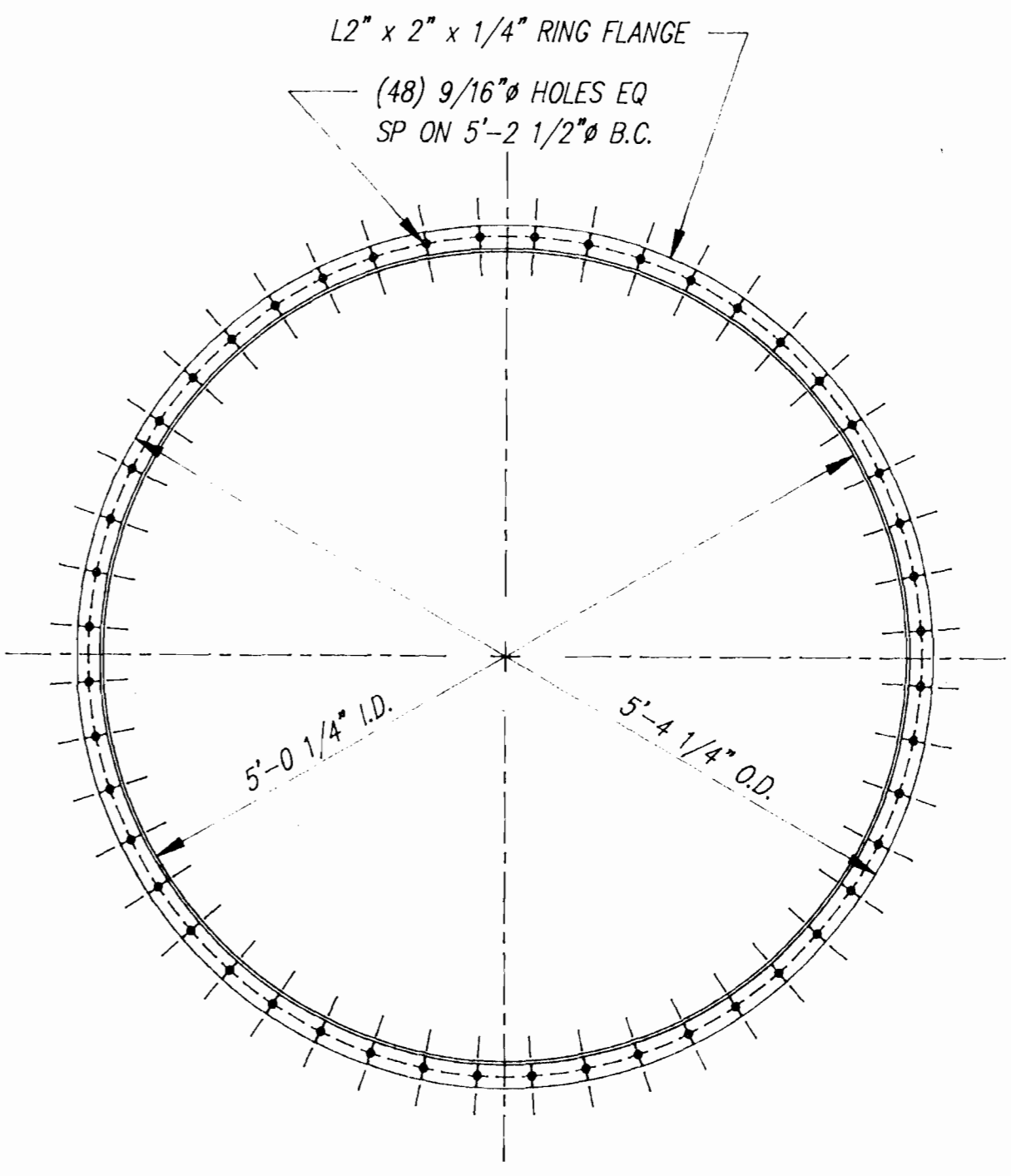
2



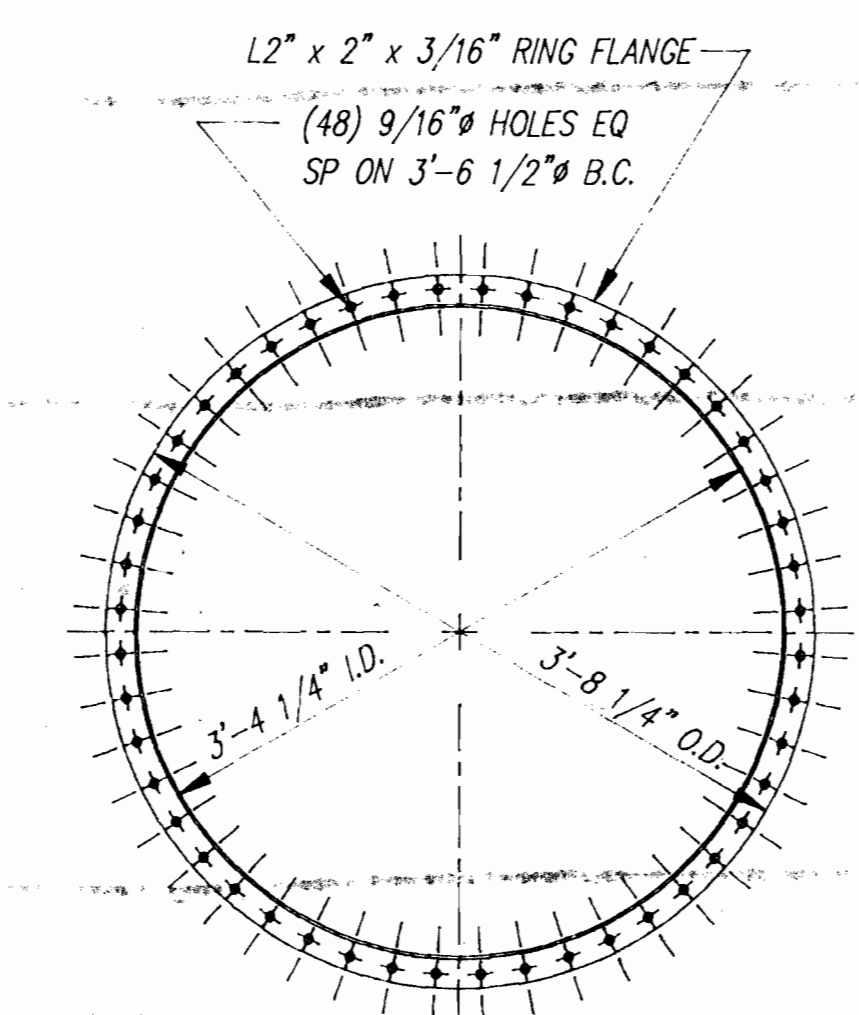
INLET FLANGE DETAIL (1-REQ'D)
(SCALE: 1" = 1'-0")



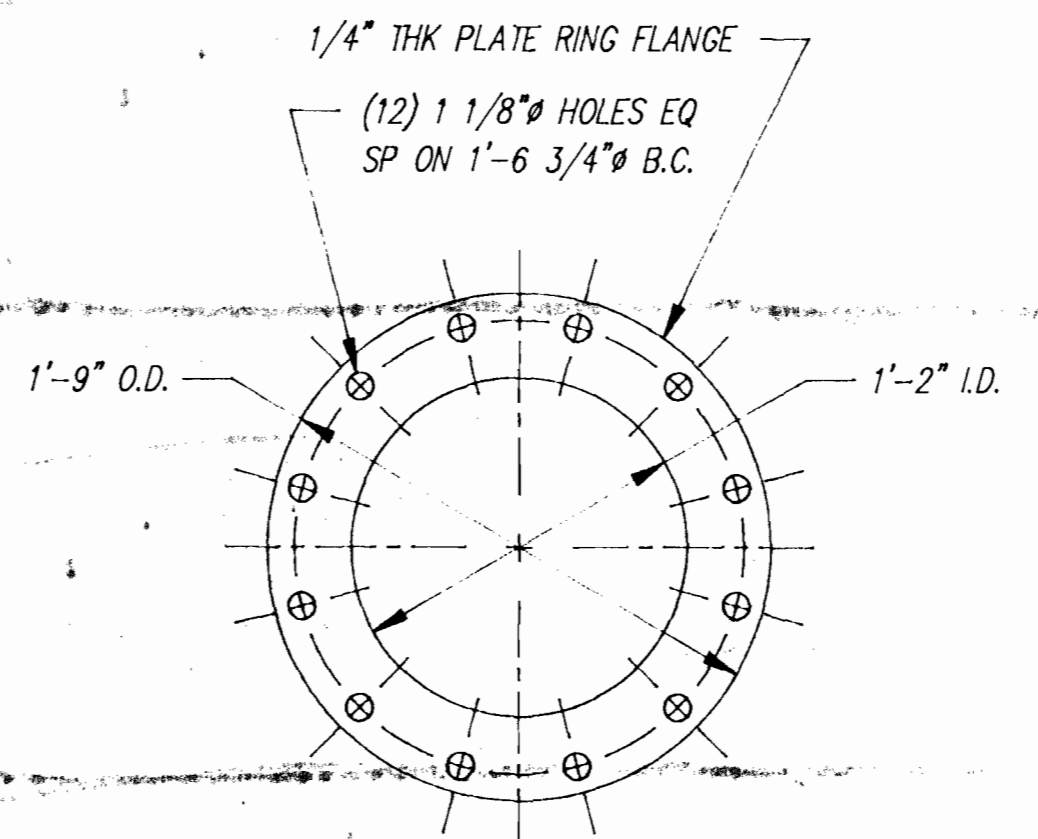
OUTLET FLANGE DETAIL (1-REQ'D)
(SCALE: 1" = 1'-0")



OUT SWIVEL FLANGE DETAIL (2-REQ'D)
(SCALE: 1" = 1'-0")



HOPPER FLANGE DETAIL (2-REQ'D)
(SCALE: 1" = 1'-0")



MATERIAL DISCHARGE FLANGE DETAIL (1-REQ'D)
(SCALE: 1 1/2" = 1'-0")

NOTES:

- MATERIAL OF CONSTRUCTION:
1/4" M.S. PLATE ON HOUSING, INLET, AND HOPPER.
7 GA. M.S. ON SCROLL OUTLET AND DUST TRAP.
- EXTERIOR M.S. SURFACES TO BE WIRE BRUSHED, SOLVENT WIPED, AND CT'D WITH A MED. OIL ALKYD PRIMER:
ONE (1) MIL D.F.T.
- VOLUME: 40,000 ACFM @ 165F.
- INLET PRESSURE: 10" W.C.
- INLET DUST LOAD: 0.7 GRAINS/FT.³
- SPECIFIC GRAVITY: 2.4
- GAS DENSITY: 0.065 LB/FT.³
- PRESSURE DROP: 3.564" W.C.
- RELOCATE FOUR (4) SUPPORT LEGS VERT. FROM 17'-1", UP 1'-0 3/4", TO 18'-1 3/4" AS SHOWN IN ELEVATION, (SEE PLAN FOR NEW ORIENTATION OF SUPPORT LEGS).

FARMLAND INDUSTRIES, INC. BARTOW, FLORIDA				
TITLE: DAP MAP COOLER CYCLONE - TRACED & MODIFIED CP ENVIRONMENTAL, INC. / CF-90-123 / MFG DWG #2381-01 PLAN, ELEVATION, AND FLANGE DETAILS				
DRAWN BY D.D. Thornberry Jr.	CHECKED BY (U.A.N.)	DATE 05-03-89	SCALE 1/2" = 1'-0"	SHEET 1 OF 1
APPROVED BY	DATE 05-03-89	REVISION	BY	APP
				DRAWING NO. 35-M-116
				REV 0



FARMLAND INDUSTRIES, INC.
 GREEN BAY PLANT
 P.O. Box 960
 Bartow, Florida 33830

CHECK NO. 69954485

80-88
 1012

1669 F0346 6-6-89
 CO. BR. VEND. NO. CHECK DATE

PAY EXACTLY *****200 DOLLARS AND 00 CENTS

CHECK AMOUNT
 *****200.00
 VOID AFTER 180 DAYS

UNITED MISSOURI BANK OF
 CARTHAGE, MO.

FARMLAND INDUSTRIES, INC.

PAY
 TO THE ORDER OF
 Florida Department of
 Environmental Regulation
 2600 Blair Stone Road
 Tallahassee, FL 32399-2400

R.H. Hollingsworth
B. Hugh Bradley

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

Dear Bill,

Enclosed is an application to install a cooler in our MAP production plant. We have scheduled a plant turnaround the week of July 24th. and hope we can receive the permit by that time.

If you have any questions please give me a call.

Very truly yours,

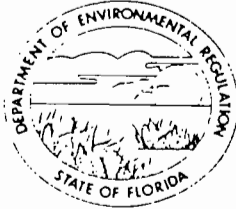
C. Gene Meier

C. Gene Meier
 Administrator,
 Environmental Services

CGM:dr
 Enclosures

CGM-56-89

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610-9544

From	DMB		
To	READ	ACK	FILE
H.H.	VICTORIA J. TSCHINKEL	GOVERNOR	
J.F.	SECRETARY		
J.McG.	RICHARD D. GARRITY, PH.D.	DISTRICT MANAGER	
G.M.	/		
P.O.			
Farmland Industries		MAY 0 4 1984	Green Bay Plant

Mr. D. M. Bordelon, General Manager
Farmland Industries, Inc.
Post Office Box 960
Bartow, FL 33830

Dear Mr. Bordelon:

Re: Polk County - AP
MAP/DAP/TSP Dryer Scrubber

Enclosed is Permit Number AO53-62458 dated 4/30/84, to operate the subject pollution source, issued pursuant to Section 403.061(14), Florida Statutes.

Should you object to this permit, including any and all of the conditions contained therein, you may file an appropriate petition for administrative hearing. This petition must be filed within fourteen (14) days of the receipt of this letter. Further, the petition must conform to the requirements of Florida Administrative Code Rule 28-5.201, (copy enclosed). The petition must be filed with the Office of General Counsel, Department of Environmental Regulation, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32301.

If no petition is filed within the prescribed time, you will be deemed to have accepted this permit and waived your right to request an administrative hearing on this matter.

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

Sincerely,

Richard D. Garrity, Ph.D.
District Manager

KMR/scm

Enclosures

DER Form 17-1.201(7)

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610-9544

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

RICHARD D. GARRITY, PH.D.
DISTRICT MANAGER

PERMITTEE:

Mr. D. M. Bordelon, General Manager
Farmland Industries, Inc.
Post Office Box 960
Bartow, FL 33830

PERMIT/CERTIFICATION

Permit No.: A053-62458
County: Polk
Expiration Date: 4/11/89
Project: MAP/DAP/TSP Dryer
Scrubber

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 & 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 department and made a part hereof and specifically described as follows:

For the operation of a wet scrubber controlling emissions from the dryer section of the MAP/DAP/TSP manufacturing facility. (North granulation plant)

Location: State Road 640, South of Bartow, Polk County

UTM: 17-409.5E 3079.5N NEDS NO: 0053 Point ID: 24

Replaces Permit No.: A053-16120

PERMITTEE: Permit/Certification No.: A053-62458
Farmland Industries, Inc. Project: MAP/DAP/TSP Dryer Scrubber

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 the 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 403.712(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 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 any order from the department.

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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 maybe required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purposes 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 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.

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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 Section 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)
- () Certification of Compliance with State Water Quality Standards (Section 401. PL 92-500)
- () 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.

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14. (con't)

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. Test the emissions for the following pollutant(s) at intervals of 6 months from the date May 15, 1984 and submit a copy of test data to the Air Section of the Southwest District Office within forty five days of such testing (Section 17-2.700 (2), Florida Administrative Code (F.A.C.)).

- | | |
|------------------|--------------------------|
| (X) Particulates | () Sulfur Oxides |
| (X) Fluorides | () Nitrogen Oxides |
| (X) Opacity | () Hydrocarbons |
| | () Total Reduced Sulfur |

*Fuel analysis may be submitted for required sulfur dioxide emission test.

2. Testing of emissions must be accomplished at approximately the rates as stated in this permit. Failure to submit the input rates or operation at conditions which do not reflect actual operating conditions may invalidate the data (Section 403.161(1)(c), Florida Statutes).

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3. The maximum permitted production rate shall be dependent upon the specific product being manufactured as follows:

<u>Product</u>	<u>Production Rate</u>
MAP	60 tons/hr. <i>new permit should be 65T/hr.</i>
GTSP	33.2 tons/hr.
DAP	40 tons/hr. <i>→ So (See 11/28/84 letter)</i>

4. The sum of the maximum allowable particulate emissions for the source regulated by permits A053-62458 (Dryer Scrubber) and A053-78868 (R/B Scrubber) shall be 30.2 lbs/hr. or as calculated by the Process Weight Table contained in Section 17-2.610, Florida Administrative Code (F.A.C.), whichever is less.

5. The sum of the allowable fluoride emissions from the Dryer and R/B Scrubbers shall be dependent upon the specific product being manufactured as follows:

<u>Product</u>	<u>Allowable Fluoride Emissions</u>
MAP	0.12 lbs/ton P ₂ O ₅
GTSP	8.38 lbs/hr.
DAP	0.06 lbs/ton P ₂ O ₅

6. If the R/B Scrubber is being operated as an integral part of the manufacturing process it shall be tested simultaneously with the dryer scrubber.

7. Visible emissions shall not be equal to or greater than 20% opacity in accordance with Subsection 17-2.610(2)(b), F.A.C.)

8. Compliance with the emission limitations of Specific Conditions Nos. 4, 5 & 7 shall be determined using EPA Methods 1,2,3,4,5, 9 and 13 contained in 40 CFR 60, Appendix A and adopted by reference in Section 17-2.700, F.A.C. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Section 17-2.700, F.A.C. and 40 CFR 60, Appendix A.

9. This Southwest District Office of the Department of Environmental Regulation shall be notified in writing 15 days prior to compliance testing.

10. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information as per Section 17-4.14, F.A.C.

- (A) Annual amount of materials and/or fuels utilized.
- (B) Annual emissions (note calculation basis).
- (C) Any changes in the information contained in the permit application.

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SPECIFIC CONDITIONS (cont'd)

11. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Section 17-2.610 (3), F.A.C.. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling.

Issued this 30 day of April,
1984.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION



Richard D. Garrity, Ph.D.
District Manager

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

PART II
FORMAL PROCEEDINGS

28-5.201 Initiation of Formal Proceedings.

- (1) Initiation of formal proceedings shall be made by petition to the agency responsible for rendering final agency action. The term petition as used herein includes any application or other document which expresses a request for formal proceedings. Each petition should 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, and an explanation of how his/her substantial interests will be affected by the agency determination;
 - (c) A statement of when and how petitioner received notice of the agency decision or intent to render a decision;
 - (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
 - (e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief;
 - (f) A demand for relief to which the petitioner deems himself entitled; and
 - (g) Other information which the petitioner contends is material.

A petition may be denied if the petitioner does not state adequately a material factual allegation, such as a substantial interest in the agency determination, or if the petition is untimely. (Section 28-5.201(3)(a), FAC)

DER Form 17-1.201(7)
Effective November 30, 1982

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610-9544



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

DR. RICHARD D. GARRITY
DISTRICT MANAGER

November 28, 1984

Mr. D. M. Bordelon, General Manager
Farmland Industries, Inc.
Post Office Box 960
Bartow, Florida 33830

RE: Polk County - AP
AO53-62458

Dear Mr. Bordelon:

We have received a request from your Environmental Affairs Coordinator, Mr. Ed Pate, dated November 16, 1984, to increase the allowable DAP production rate from 40 to 50 tons/hr. The following admendment is made to Specific Condition No. 3 regarding the maximum permitted DAP production rate:

<u>From</u>	<u>To</u>
40 tons/hr.	50 tons/hr.

This letter must be attached to and becomes a part of said permit. If we can be of further assistance, please give us a call.

Sincerely,

W. C. Thomas, P.E.
District Air Engineer

WCT/js

cc: Mr. Ed Pate