

. 1

## GARDINIER INC.

Post Office Box 3269

Tampa, Florida 33601

Telephone 813 - 677 - 9111

TWX 810 - 876 - 0648

Telex - 52666

Cable - Gardinohos

January 16, 1989

RECTIVED

Mr. Clair Fancy
Florida Department of Environmental
Regulation
Twin Towers Office Building
2600 Blair Stone Road

JAN 20 1989

DER - Line

Subject: Proof of Publication

Tallahassee, FL 323-99-2400

Intent to Issue Construction Permit

For The Construction Of A Clarifier/Storage Tank

Dear Sir:

You will find attached Proof of Publication of Intent to Issue Permit by the Department of Environmental Regulation.

If there are any questions, please contact me.

Sincerely.

E. O. Morris

Environmental Manager

:gf

cc: Bill

Bill Thomas/DER/Tpa

J. Campbell/HCEPC

R. Cabina File P-45A

J. Reynolds

#### THE TAMPA TRIBUNE

Published Daily Tampa, Hillsborough County, Florida

State of Florida County of Hillsborough

ss.

in the matter of NOTICE OF INTENT  was published in said newspaper in the issues of
in the matter of NOTICE OF INTENT  was published in said newspaper in the issues of
was published in said newspaper in the issues of  ———————————————————————————————————
was published in said newspaper in the issues of
Affiant further says that the said The Tampa Tribune is a newspaper published at Tampa, in said Hillsborough County, Florida, and that the said newspaper has heretofore been continuously published in said Hillsborough County, Florida, each day and has been entered as second class mail matter at the post office in Tampa, in said Hillsborough 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.  Sworn to and subscribed before me, this 12th. day
Affiant further says that the said The Tampa Tribune is a newspaper published at Tampa, in said Hillsborough County, Florida, and that the said newspaper has heretofore been continuously published in said Hillsborough County, Florida, each day and has been entered as second class mail matter at the post office in Tampa, in said Hillsborough 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.  Sworn to and subscribed before me, this 12th. day
Affiant further says that the said The Tampa Tribune is a newspaper published at Tampa, in said Hillsborough County, Florida, and that the said newspaper has heretofore been continuously published in said Hillsborough County, Florida, each day and has been entered as second class mail matter at the post office in Tampa, in said Hillsborough 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.  Sworn to and subscribed before me, this 12th. day
Tampa, in said Hillsborough County, Florida, and that the said newspaper has heretofore been continuously published in said Hillsborough County, Florida, each day and has been entered as second class mail matter at the post office in Tampa, in said Hillsborough 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.  Sworn to and subscribed before me, this 12th. day
of January $\Delta / AD 10.89$
Malla My Notary Public, State of Florida
(SEAL) My Commission Expires Jon. 6, 1993

State of Florida
Department of
Environmental Regulation
Notice of intent
The Department of Environmental Regulation hereby
gives notice of its intent to
issue a permit to Gardiner,
inc., for the construction of a
clarifler/storage tank at their,
focility near Tampa, Hillsboro
ough County, Florida, The Department is issuing this intent
to issue for the reasons-stated
in the Technical Evolution
and Preliminary Determination.
Persons whose substantial
interests are affected by the
Department's proposed permitting decision may petition
for an administrative determination (hearing) in accordance
with Section 120.57, Florida
Statutes. The petition must
conform to the requirements
of Chapters IT-103 and 28-5,
Florida Administrative Code,
and must be filled (received) in
the Department's Office of
General Counsel, 2600 Blair
Stone Road, Twin Towers Office
Building, Taliahassee, Florida
23399-2400, within
fourteen (14) days of publication of this notice. Fallure to
file a petition within this time
period constitutes a waiver of
any right such person has to
request an administrative determination. (hearing) under the To-Glenn And To-Clenn And T Oruce 11th goal goaltender Bil 10 Kinspejuls p of it baqqiit, leyer, Dan pass benind u noT-ndot--o 2 of 7. Marty McSorl Angeles alon Срісядо wpich brough 8.33 (pp) 101 Gretzky. (roughing) Edmonton sin тоту очет тре n. Savard). Angeles past I se will, Det tory over the (noiding) of treizky nad (hoiding) of the pass on (hohi-(hooding), iv. the pass of the condition of the con goal at 2:20 of

State of Florida
Department of
Environmental Regulation
Notice of Intent
The Department of Environmental Regulation hereby
gives notice of its intent to
issue a permit to Gardinier,
inc., for the construction of
a clarifler/storage tank at their
facility near Tampa, Hillsborough County, Florida. The Department is issuing this intent
to issue for the reasons stated
in the Technical Evaluation
and Preliminary Determination.

Persons whose substantial interests are affected by the

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

retrititation (nearing) unioes Section 120.57, Florida Statutes.

If a petition is filed, the administrative hearing process is designed to formulate ogen-cy action. Accordingly, the Department's final action may be different from the proposed agency action. Therefore, persons who may not wish to file a petition may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Rule 28-5.207, Florida Administrative Code, at least five (5) days before the final hearing and the proceeding officer if one has been assigned at the Division of Administrative Hearings, Department of Administrative Hearings, Department of Administrativa See, Florida 32301. If no hearing officer has been assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 3239-2400. Failure to petition to intervene within the allowed time frame constitutes a walver of any right such person has to request a hearing under Section 120.57, Florida Statutes.

The application is available for public inspection during

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

Dept. of Environmental Regulation

Environmental Regulation Bureau of Air Quality Management 2600 Blair Stone Road Tallahassee, Florida 32399-2400
Dept. of
Environmental Regulation Southwest District 4520 Oak Fair Boulevard Tampa, Florida 33610-7347 Environmental Protection Environmental Protection
Commission of
Hillsborough County
1410 North 21st Street
Tampa, Florida 33605
Any person may send written comments on the proposed action to Mr. Bill Thomas of the Department's Tallohassee address, All comments mailed within 14 days of the publication of this notice will be considered in the Department's final determination.



#### State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

For Reuting To Other Then The Addressee		
To:	<del></del>	Location:
To:		Location:
To:		Location:
From:		Oese:

## Interoffice Memorandum

TO: Dale Twachtmann

FROM:

Steve Smallwood

SUBJ: Approval of Construction Permit No. AC 29-156206

Gardinier, Inc.

January 31, 1989 DATE:

Attached for your approval and signature is a permit prepared by Central Air Permitting for the above mentioned company to construct a phosphoric acid clarifier and storage tank.

No comments were received during the public notice period.

Day 90, after which this permit will be issued by default, is February 16, 1989.

I recommend your approval and signature.

SS/JR/s

attachments

Office of the Secretary

PM 4-7-89 Sampa, FL

file copy



## GARDINIER INC.

Post Office Box 3269

Tampa, Florida 33601

Telephone 813 - 677 - 9111

TWX 810 - 876 - 0648

Telex - 52666

Cable - Gardinohos

April 7, 1989

## RECEIVED

APR 1 0 1989

Mr. Clair H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management
Florida Department of
Environmental Regulation
2600 Blair Stone Rd.
Tallahassee, Florida 32399-2400

DER - BAQM

Subject: Modification of Construction Permit AC29-156206

Dear Mr. Fancy:

Based on the following information, Gardinier is requesting a modification of the above-referenced construction permit.

As per discussions between the Department and Gardinier during review of the application for the above-referenced permit, Gardinier has continued the evaluation of the most effective means of controlling emissions from the existing phosphoric acid clarifier and 300,000 gallon phosphoric acid storage tank. Gardinier has determined that installing controls on these existing sources is a more appropriate course of action than constructing an entirely new clarifier/storage tank, at this time. Accordingly, we request that the construction permit be modified to reflect that the existing tanks will be covered and ducted to wet scrubbers.

The requested modification will require that the Project Description on page 1 of the permit and Specific Condition No. 2 on page 5 of the permit be modified. Suggested language for the modified permit is provided below:

Mr. Clair H. Fancy April 7, 1989 Page Two

Project Description -

For the construction of covers over an existing phosphoric acid storage tank and an existing phosphoric acid clarifier located at the permittee's phosphate fertilizer complex near the intersection on U.S. Highway 41 and Riverview Drive in Hillsborough County, Florida. The latitude, and longitude and UTM coordinates are 27x51'30"N by 82x23'57"W and 362.6 km E and 3082.5 km N, respectively.

Specific Condition No. 2 -

Within 30 days of completion of construction, performance tests shall be conducted to demonstrate that these sources, in combination with the existing phosphoric acid production units, comply with the New Source Performance Standards for Wet Process Phosphoric Acid Plants (Subpart T, 40 CFR 60.200).

Attached for your review is a revised "Attachment A" (project description) to the original permit application. Also attached are drawings and engineering calculations supporting the emission estimates for the proposed system.

Should you have any questions concerning this matter or require any additional information, please feel free to contact me.

Sincerely,

David B. Jellerson, P.E.

**Environmental Supervisor** 

:gf

cc:

J. Campbell, HCEPC

W. Thomas/FDER/Tpa

E. O. Morris

P-17A

expied: q. Reynolds

#### APPENDIX A

This project involves enclosing the existing 300,000 gallon phosphoric acid storage tank and clarifier at Gardinier. Each will be enclosed and fumes will be vented through a new scrubber system for each tank.

Source of gaseous fluorides associated with the existing clarifier consist of the clarifier vent, wash box, and pump Sources associated with the existing 300 K tank include the tank and wash box. Fluorides emissions from these two sources uncontrolled are estimated at 3.5 lb./hr. The new scrubber systems will significantly reduce the actual fluoride emission to atmosphere. Assuming 95% fluoride removal efficiency, fluoride emissions for the proposed clarifier scrubber system will be 0.0133 lb./hr., 0.3180 lb./day or 0.0580 tons/yr. With the same removal efficiency on the 300 K tank the fluoride emissions will be 0.0010 lb./hr., 0.0230 lb./day or 0.0042 tons/yr. The two systems together will emit 0.0143 lb./hr., 0.3410 lb./day or 0.0622 tons/yr.

The estimated gas flow from the clarifier, pump tank and washbox is at 11,000 acfm, and for the 300K tank and washbox 800 acfm. Each system will have its own packed tower scrubber with the scrubbing liquid being pond water.

### MATTHEW P. MEYER MARCH 23, 1989

Determine the fluoride loading to a scrubber system from an enclosed 300,000 gallon tank.

O Determine acfm to effectively evacuate tank.

-approximately 15.36 ft of 1/8" cracks e 5000 ft/min

. 16 ft 2 x 5000 2 800 ft 3/min

-avarage volume displacement

70 gpm 2 500 ft /min

safety factor of Boo = 1.6

@ Determine the flow of dry arm to scrubber

800 ft 3/min x 40 min/hr x (8 16/43) @ 27.99 inthe

 $S_{(29.92)} = 0.07093 | b/c_{4}^{3}$   $T_{1} = T_{2}$   $V_{1} = V_{2}$ 

S(27.22) = ? PV= mRT S= M

 $S = \left(\frac{M_2}{V_2}\right)^2 \left(\frac{M_1}{V_1}\right) \frac{P_2}{P_2}$ 

= (0.07093) 27.29

= 0.06635 16/43

800 ft /mm x 60 min/nr x 0.06635 14ft3 = 3184 16/nr dry air

(28.96 15/mole dry air) = 110 mole / dry air

3 Determine total moles of air/water mixture to scrubber.

Assume air and water mixture from tank to scrubber

15 140°F.

Assume vapor pressure of water is 4.33 in Hy abs over

30% phosphoric acid.

7 = 128.6 moles of air/water mixture/nr

19 Determine moles of water to scrubber

4.33. 128.6 = 18.6/ moles of water/na 29.92 = 335 16/hr

3 Determine volume of air/water mixture to scrubber

 $\frac{335}{3184} \frac{16/nr}{hr} \frac{H_2O}{dry} = 0.1052$ 

from psychometric chart

V3 = 17.5 ft3/16 dry air

17.5 ft 3/1 x 3184 16/ x 1hr = 929 acfm

@ Determine moles of F- to scrubben

Assume 2.5% F concentration with repor pressure = 0.006 mm Hg = 2.36 x 10 mm Hg

2.36 × 10-4. 128.6 = 1.014 × 10-3 moles F/hr

= 0.0193 16 F/Ar

= 0.463 15 F/day

Assume 95% removal of F = 0,023 16/day F

Determine the fluoride loading to a scrubber system from the existing clarifur enclosed.

- O Determine acfin to effectively evacuate.
  - approximately 190 ft of 18" cracks @ 5000 Almin

1.98 ft X 5000 ft/mm = 9900 ft3/mm

- 11,000 acfm
- volume = constant sufety factor 11,000
- 2) Determine the flow of dry air to scrubber

11,000 x60 x 0.06635 = 43791 16/nr dry ai 1.5.12 moles/hridry ar

3 Determine total moles of air water mixture to scrubber.

x = 1768 moles/hr.

Determine moles of water to scrubber.

4,33 29,92 · 1768 = 256 moles/hr = 4608 Wolhr

5 Determine volume of air/water mixture to scrubber

17.5 x 4379/ x /40 = 12,772 acfm

(6) Determine moles of F to scrubber

2.36 ×10 x 1768 = 0.0139 moles F/hr = 0,2650

= 6.359 15 F/day

Assume 95% removal of F = 0.3180 /b/day F

· · · · · · · · · · · · · · · · · · ·	<u> </u>		PAGE 4
		iterining the atm tank and clari	
- ASSUME wind - Height of blank - Air leaving the as vented tank - Air leaving the	velocity @ 10 mp et over tank & 1 tanks is at the	h = 880 ft/min  ft  same mole fraction	1
Calculate air		urface area of tan	.Ls
880 A/min	880 ft/ 880 ft/ 880 ft/	um X 1 ft X ~ 2 TT B um X 1 ft X ~ 102 ft um X 1 ft X ~ 62 ft	= 89,850 = 54,560 144,410 Himin
ge with another the contraction of the first termination of the fight field.	TARRETON THE TOTAL CONTROL OF STREETS TRANSPORTED TOTAL CONTROL CONTRO	580429.8 16/hr 20042 mole/nr	- المنافقة المنافقة مستميد بن منافقة المنافقة بعد الرياضية المنافقة بعد المنافقة بالمنافقة بالمن
(29.92	) = 23434 n	role/hr air/water mix	ture
2.36×10-4 29.92 (23	434) = 0,1848 = 3,512	mole/hr of F	
	= 84.28	15/day of F	
time and the same		<u> </u>	



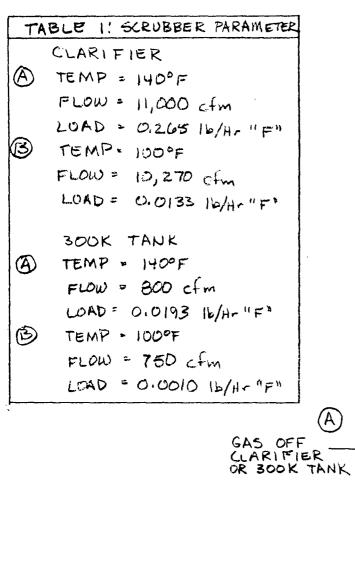
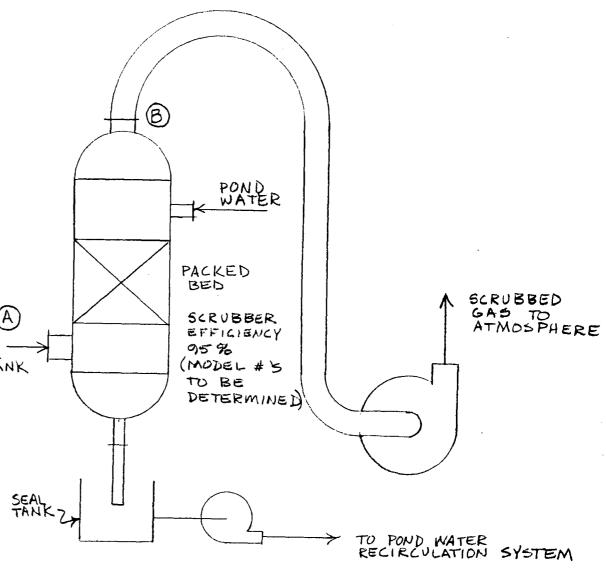
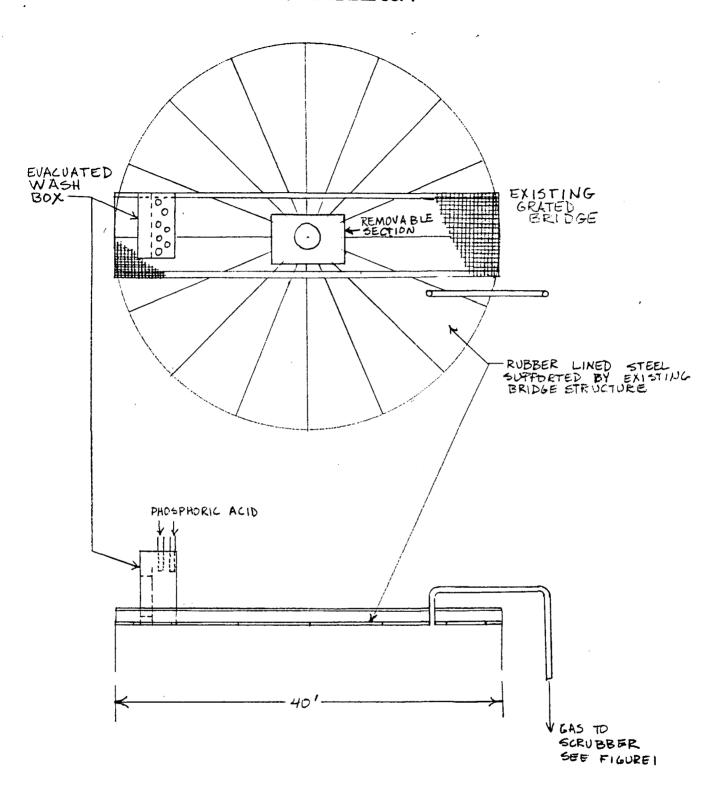


FIG 1: SCRUBBER SYSTEM

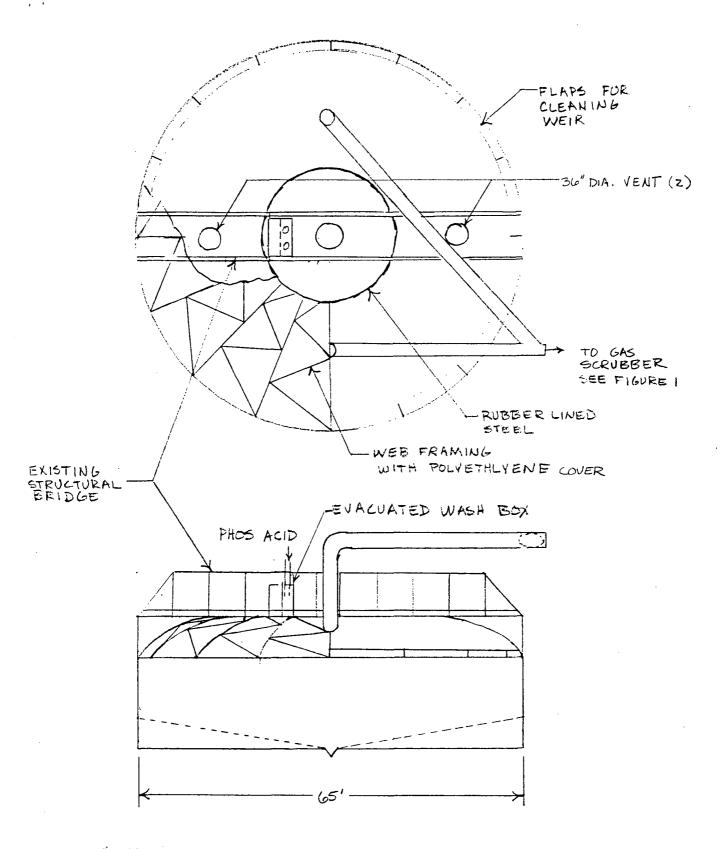


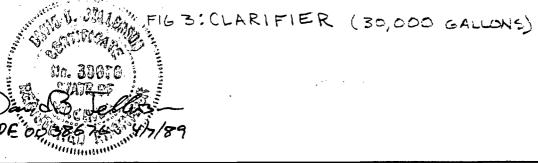


F16 2:300,000 GALLON TANK

David B. Jellus -# PE 0038676 4/3/89

MM NOT TO SCALE





MM NOT TO SCALE



## State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

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

# Interoffice Memorandum

APR 24 1989

TO: Dale Twachtmann

FROM: Steve Smallwood

Office of the Secretary

SUBJ: Amended Permit Conditions - Gardinier, Inc.

DATE: April 25, 1989

Attached for your approval and signature are amended permit conditions for Gardinier's clarifier/storage tank located near Tampa. Since there is no increase in allowable emission limits, the changes were made without issuing a new permit.

I recommend your approval and signature.

SS/JR/s

Attachments



### 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

Dr. 4/27/67

April 25, 1989

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Henk Mathot, President Gardinier, Inc. Post Office Box 3269 Tampa, Florida 33601

Dear Mr. Mathot:

Re: Application for Permit Modification - Clarifier/Storage Tank (AC 29-156206)

This letter confirms that a new construction permit for the proposed modification is not required since the emissions are not being increased. The permit amendment is stated below:

#### Present Description:

For the construction of a phosphoric acid clarifier/storage tank located at the permittee's phosphate fertilizer complex near the intersection on U.S. Highway 41 and Riverview Drive in Hillsborough County, Florida. The latitude and longitude and UTM coordinates are 27°51'30"N by 82°23'57"W and 362.6 km E and 3082.5 km N, respectively.

#### Amended Description:

For the construction of permanent enclosures over an existing phosphoric acid storage tank and an existing phosphoric acid clarifier, each enclosure to be vented to a separate new scrubbing system, located at the permittee's phosphate fertilizer complex near the intersection on U.S. Highway 41 and Riverview Drive in Hillsborough County, Florida. The latitude and longitude and UTM coordinates are 27°51'30"N by 82°23'57"W and 362.6 km E and 3082.5 km N, respectively.

Ado P/1A

Mr. Henk Mathot Page Two April 25, 1989

Present Specific Condition No. 1: Deleted.

New Specific Condition No. 1:

The new scrubbers shall be operated at all times except when scrubber downtime is necessary for process or maintenance reasons. Fluoride emissions from the new scrubbers shall not exceed:

Source	lbs/hr	tons/yr
Clarifier	0.013	0.057
Storage Tank	0.001	0.004

Present Specific Condition No. 2: Deleted.

New Specific Condition No. 2:

Before the construction permit expires, the clarifier and the storage tank scrubbers shall be sampled for fluoride emissions. Test procedures shall be in accordance with EPA reference methods 1, 2, and 13A or 13B as published in 40 CFR 60. The Department's Southwest District office and the Environmental Protection Commission of Hillsborough County (EPCHC) shall be notified in writing 15 days or more prior to the compliance tests. Results of the tests shall be reported to the Department and the EPCHC along with test data including the amount of phosphoric acid in the tanks, fluoride content of the acid and the incoming scrubber water, and pressure drop across the scrubber.

This amendment letter becomes attachment No. 2 to your construction permit AC 29-156206.

Jincolety.

Dale Twachtmann

Secretary

#### DT/ks

cc: D. Buff, P.E.

- B. Thomas, SW District
- J. Campbell, EPCHC
- D. Jellerson, Gardinier



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

#### REGION IV

345 COURTLAND STREET ATLANTA, GEORGIA 30365

AUG 1 1 1989

4APT-AC

Mr. Victor San Agustin Senior Air Permit Engineer Hillsborough County Environmental Protection Commission 1900 9th Avenue Tampa, Florida 33605

Dear Mr. San Agustin:

As requested in your letter of June 16, 1988, to Mr. Brian Beals of my staff, we have determined the applicability of 40 CFR Part 60 Subpart T to the phosphoric acid plant at Gardinier, Incorporated in Gibsonton, Florida. The following is our applicability determination.

Phosphoric acid plant Nos. 3 and 4 are considered parts of one affected facility subject to 40 CFR Part 60, Subpart T. The definition of an affected facility is any combination of reactors, filters, evaporators and hot wells and in this case, plant Nos. 3 and 4 are actually two reactors that utilize common filters, evaporators and hot wells. The entire complex is considered one affected facility.

The clarifier, the 300,000 gallon 30% H<sub>3</sub>PO<sub>4</sub> storage tank, the east evaporator feed tank, and the west evaporator feed tank, are considered parts of this affected facility. Therefore, according to 40 CFR §60.204(c), the fluoride emissions from these four process units must be included when determining compliance with the fluoride emission standard of Subpart T.

However, the two 54 percent  $P_2O_5$  storage tanks are not considered part of the affected facility. Fluoride emissions from these tanks may be required to be determined because of SIP regulations, PSD, or Gardinier's permit.

We believe that Gardinier should be considered in violation of 40 CFR §60.8 and 40 CFR Part 60, Subpart T. It is evident that at least four sources of fluoride emissions from their wet process phosphoric acid plant have not been tested since the modification of the plant in 1983. Therefore, we anticipate that your agency will be pursuing an enforcement action against Gardinier for these violations.

If you have any questions regarding this letter please contact Mr. Paul Reinermann at 404/347-2904.

Sincerely yours,

Roger O. Pfaff, Chief Air Compliance Branch Air, Pesticides & Toxics Management Division

file copy



### GARDINIER INC.

Post Office Box 3269

Tampa Florida 33601

Telephone 813 - 677 - 9111

TWX 810 - 876 - 0648

Telex - 52666

Cable - Gardinphos

RECEIVED

April 28, 1989

MAY 3 1989

**DER - BAQM** 

Mr. C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management
Florida Department of
Environmental Regulation
2600 Blair Stone Rd.
Tallahassee, Florida 32399-2400

Subject: Modification of Construction Permit AC29-156206

Dear Mr. Fancy:

We are in receipt of the modification to the abovereferenced permit and wish to thank you for your prompt action on this matter. However, we have some concern about the wording of Specific Condition #1 of the modified permit.

As you may recall, this permit concerns the covering of a clarifier and a storage tank at our phosphoric acid production facility. The Department of Environmental Regulation established the emission limitations for these sources (see Specific Condition #1) based on the reasonable interpretation that they are not subject to the New Source Performance Standards established in Subpart T, 40 CFR 60.202. However, by letter to the Hillsborough County Environmental Protection Commission dated August 11, 1988 (attached), the U. S. Environmental Protection Agency made a unilateral decision that these sources are subject to Subpart T and, must be included when determining compliance with the fluoride emission standards for the entire phosphoric acid production facility.

Mr. C. H. Fancy April 28, 1989 Page Two

Based on the EPA decision, Gardinier requests that Specific Condition #1 of the above permit be modified to read as follows:

Specific Condition #1 -

1. The new scrubbers shall be operated at all times except when scrubber downtime is necessary for process or maintenance reasons. Fluoride emissions from the new scrubbers, together with the emissions from the remainder of the Wet Phosphoric Acid Plant shall not exceed 0.020 lb/ton of equivalent  $P_2O_5$  feed.

Should you have any questions concerning this matter or require any additional information, please feel free to contact me.

Sincerely,

David B. Jellerson, P.E. Environmental Supervisor

cc: J. Campbell, HCEPC

J. Reynolds, FDER

W. Thomas, FDER-Tampa

E. O. Morris

P-17A

CHF/BT



## 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  ${\tt C}$ 

DATE: May 18, 1989

Office of the Secretary

MAY 18 1989

SUBJ: Amended Permit Conditions - Gardinier, Inc.

Attached for your approval and signature are amended permit conditions for Gardinier's clarifier/storage tank located near Tampa.

I recommend your approval and signature.

SS/JR/plm

Attachments



### 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

May 18, 1989

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Henk Mathot, President Gardinier, Inc. Post Office Box 3269 Tampa, Florida 33601

Dear Mr. Mathot:

Re: Request for Permit Modification - Clarifier/Storage Tank (AC 29-156206)

In view of the EPA's determination of the applicability of 40 CFR Part 60 Subpart T to Gardinier's clarifier/storage tank, the above permit is amended as stated below:

Present Specific Condition No. 1:

The new scrubbers shall be operated at all times except when scrubber downtime is necessary for process or maintenance reasons. Fluoride emissions from the new scrubbers shall not exceed:

Source	lbs/hr	tons/yr
Clarifier	0.013	0.057
Storage Tank	0.001	0.004

New Specific Condition No. 1:

1. The new scrubbers shall be operated at all times except when scrubber downtime is necessary for process or maintenance reasons. Fluoride emissions from the new scrubbers, together with the emissions from the remainder of the Wet Phosphoric Acid Plant, shall not exceed 0.020 lb/ton of equivalent  $P_2O_5$  feed.

Mr. Henk Mathot Page Two May 18, 1989

This amendment letter shall become attachment No. 3 to your construction permit AC 29-156206.

Sincerely,

Dale Twachtmann

Secretary

DT/plm

cc: D. Buff, P.E.

B. Thomas, SW District J. Campbell, EPCHC

D. Jellerson, Gardinier



### GARDINIER

RECEIVED OCT 1 0 1989

DER - BAQM

Post Office Box 3269

Tampa, Florida 33601

Telephone 813 - 677 - 9111

TWX 810 - 876 - 0648

Telex - 52666

Cable - Gardinghos

September 28, 1989

Mr. Clair H. Fancy, P.E. Deputy Chief Bureau of Air Quality Management Florida Department of Environmental Regulation 2600 Blair Stone Rd. Tallahassee, Florida

Re: Phosphoric Acid Clarifier/Storage Tanks (AC29-156206)

Dear Mr. Fancy:

Construction efforts to control emissions from the subject tanks are ahead of schedule. The tanks have been covered and are presently evacuated through scrubbers. Some minor fugitive emissions around the tanks are being addressed.

To expedite the completion of the 300 thousand gallon phosphoric acid tank, a Croll Reynolds (Model # 66-24V) venturi scrubber was available to us, and consequently substituted for the packed tower scrubber.

The units will be performance tested well within the permit requirements.

Please call if you have questions or concerns.

Sincerely,

Wesley C. Sassaman, REM

Environmental Coordinator

Encl.: Croll Reynolds (Model # 66-24V) Diagram

cc: Jerry Campbell, HCEPC

W. Thomas, FDER-Tampa

E. Morris Pile-17-A

Petter John R. 10/16

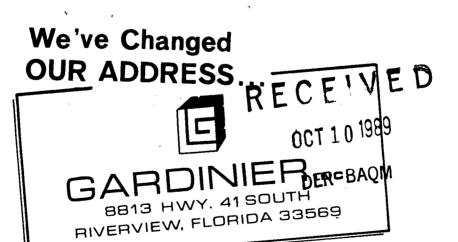
Too permit Jile. As K

engine is geint reeds to
be anded to reflect the
different souther.

it doesn't matter as long as they meet the emission limits, JR

John Reyfolds - 10) 24
Please look at permit and
application and see its scribber
type mentiond. I'd like to see
application and permit.

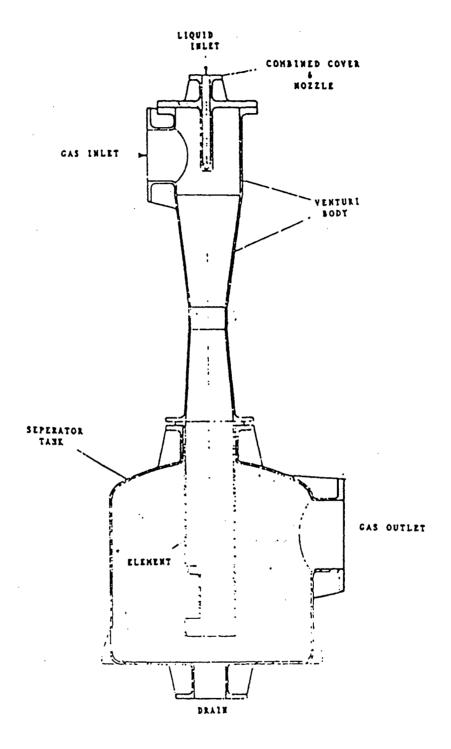
The application shows a packed services. Looks like they put in a packed scribber on the clarifier and a venturi on the clarifier and a venturi on the continuation of the parent of court type.



#### Scrubber at the 300,000 Gallon Storage Tank

Croll Reynolds (Model No. 66-24V)

Venturi Scrubber





### Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400 Bob Martinez, Governor Dale Twachtmann, Secretary John Shearer, Assistant Secretary

October 27, 1989

#### CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Henk Mathot, President Gardinier, Inc. 8813 Highway 41 South Riverview, Florida 33569

Dear Mr. Mathot:

Re: Permit No. AC 29-156206 (Gardinier's Letter Dated 9/28/89)

This confirms that the Bureau of Air Regulation has no objection to the substitution of the Croll-Reynolds Model No. 66-24 V venturi scrubber for the packed scrubber shown in Gardinier's phosphoric acid storage tank application.

Sincerely,

C. H. Fancy P.E.

Bureau of Air Regulation

#### CHF/JR/t

cc: D. Buff, P.E.

B. Thomas, SW District

E. Svec, EPCHC

W. Sassaman, Gardinier