

KOOGLER & ASSOCIATES, Environmental Services

4014 N.W. 13th Street • Gainesville, Florida 32609 • 904/377-5822

DER

KA 344-85-01

JAN 29,1988 000

January 28, 1988

BAQM

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

Subject: Central Phosphates, Inc.

Modification of Sulfuric Acid Plants A, B, C and D Permit Nos. AC29-132155, AC29-132157, and PSD-FL119

Dear Mr. Fancy:

We have finally resolved the problems that were brought about by changing air quality models from ISC Version V to ISC Version VI and are responding to your completeness review letter of May 15, 1987. To overcome the modeling problems, the stack heights of the A and B sulfuric acid plant were increased from 90 feet to 110 feet. This stack height increase allowed the sulfur dioxide emission rates from these two plants to be increased from 7.25 pounds per ton of acid produced to 8.0 pounds per ton of acid produced. The stack height increase does not contradict any of the requirements for Good Engineering Practice stack height and the sulfur dioxide emission rate increase to 8.0 pounds per ton of acid produced still represents a decrease from baseline in sulfur dioxide emissions from the A and B plants. No changes have been made in the sulfuric acid mist emissions from the A and B plants or to emission rates or stack dimensions of the C and D acid plants. In the following paragraphs, we respond to the specific requests of your letter of May 15, 1987.

FDER Request No. 1

Modeling results using the ISC VI Air Quality Model.



(H)

:

.

.

Response:

All modeling has been redone using the ISC Version VI Model, incorporating the regulatory default option. The results of the air quality modeling are summarized in the attached tables and figures. To expedite review, the proposed and existing operating rates and parameters for all sulfuric acid plants are also summarized (Table 1).

Under current permitted conditions, the A and B sulfuric acid plants are permitted to operated at a rate of 1000 tons per day of 100 percent sulfuric acid, each, at an emission rate of 10 pounds of sulfur dioxide and 0.3 pounds of acid mist per ton of acid produced. The existing stack heights of the A and B sulfuric acid plants are 78 feet. Under proposed conditions, the A and B sulfuric acid plants will operate at a rate of 1050 tons per day of 100 percent sulfuric acid, each, with an emission rate of 8.0 pounds of sulfur dioxide and 0.2 pounds of acid mist per ton of acid produced. Additionally, the stack heights of the A and B sulfuric acid plants will be raised to 110 feet.

The C and D sulfuric acid plants are presently permitted to operate at a rate of 1900 tons per day of 100 percent sulfuric acid, each, with an emission rate of 4.0 pounds of sulfur dioxide and 0.15 pounds of acid mist per ton of acid produced. The stack height of each of these plants is 198.5 feet and will remain unchanged. Under proposed conditions, the C and D sulfuric acid plants will operate at 2400 tons of 100 percent sulfuric acid per day, each, with an emission rate of 4.0 pounds of sulfur dioxide and 0.15 pounds of acid mist per ton of acid produced.

The initial modeling effort was to evaluate the change in the ambient impacts of sulfur dioxide emissions resulting from the changes in operating and emission rates of the CPI sulfuric acid plants described in the previous paragraph. The results of this modeling are summarized in Table 2. The results of the modeling demonstrate that for the annual period, there will be a net reduction in ambient sulfur dioxide levels. For the three-hour and 24-hour periods, the proposed changes will result in slight increases in ambient sulfur dioxide levels; a 1.2 micrograms per cubic meter increase for the three-hour period and a 0.2 micrograms per cubic meter increase for the 24-hour period. Significant impact levels for sulfur dioxide are defined as 1 microgram per cubic meter for the annual period, 5 micrograms per cubic meter for the 24-hour period and 25 micrograms per cubic meter for the three-hour period. The modeling results therefore indicate that the proposed changes in sulfuric acid plant operating conditions will result in changes in the ambient sulfur dioxide levels that are below the significant levels.

Modeling was also conducted to determine the impact of sources that would expand or consume PSD increments in the vicinity of the CPI plant. Results of this modeling are summarized in Table 3. The modeling shows that the PSD increment consuming and expanding sources will result in a maximum annual sulfur dioxide increase of 0.8 micrograms per cubic meter, a maximum three-hour increase of 53 micrograms per cubic meter and a maximum 24-hour increase of 14 micrograms per cubic meter. The locations of these impacts are shown in Figure 1. These increases in ambient sulfur dioxide levels compare with Class II PSD increments of 20 micrograms per cubic meter for the annual period, 512 micrograms per cubic meter for the three-hour period and 91 micrograms per cubic meter for the 24-hour period. The impact of PSD increment consuming and expanding sources in the vicinity of CPI are well below the allowable Class II PSD increments.

The final modeling exercise was to compare the impacts of all existing sources in the vicinity of the CPI plant with ambient air quality standards for sulfur dioxide. Results of this modeling are summarized in Table 4 and Figure 1. The results of the modeling show that the annual impact of all existing sources is 45 micrograms per cubic meter, compared with an ambient air quality standard for sulfur dioxide of 60 micrograms per cubic meter. The modeling also shows that the maximum three-hour impact of all sources is 817 micrograms per cubic meter, compared with an air quality standard of 1300 micrograms per cubic meter and that the maximum 24-hour impact is 245 micrograms per cubic meter, compared with an air quality standard of 260 micrograms per cubic meter. The data submitted with the original permit application package demonstrate that the background sulfur dioxide levels in the vicinity of the CPI plant are 0.0. Figure 1 shows the locations of the maximum annual, three-hour and 24-hour sulfur dioxide impacts.

The impacts of sulfuric acid mist emissions were determined for the conditions representative of the worst-case 24-hour impact. The meteorological data used for this analysis were from day 270, 1975 and are representative of the meteorological conditions under which the highest second-high 24-hour impact from the CPI sources is expected. The modeling demonstrated that the maximum 24-hour acid mist impact will be 5.6 micrograms per cubic meter. This impact is greater than the guideline impact (see original permit application) of one microgram per cubic meter, 24-hour average, but represents an estimated 58 percent reduction in the maximum acid mist impact expected under present operating conditions. Since no adverse acid mist effects have been observed under present conditions, no adverse impacts are anticipated under the proposed conditions.

The initial modeling exercise demonstrated that the impact proposed changes to the four CPI sulfuric acid plants resulted in impacts that were not significant for the annual, 24-hour and three-hour periods. Because of this, no significant impacts would be expected on any Class I PSD area or any sulfur dioxide Non-attainment Area.

The stack height of the A and B sulfuric acid plants, as proposed, will be 110 feet while the stack heights of the C and D plants are, and will be, 198.5 feet. All of these stack heights are less than 213 feet (65 meters) which is considered the minimum Good Engineering Practice (GEP) stack height. As a result, none of the GEP stack height requirements apply to the CPI sulfuric acid plant stacks. The air quality modeling conducted using the ISC Version VI Model incorporated the regulatory default options which included stack tip down-wash.

A copy of all air quality modeling data is attached.

FDER Request No. 2

For A and B plants, explain how you intend to reduce emissions of sulfur dioxide from 10 to 7.25 pounds per ton of 100 percent acid. Also, explain how you intend to reduce acid mist emissions from 0.3 to 0.2 pounds per ton of 100 percent acid.

Response:

Under proposed conditions, the sulfur dioxide emissions from the A and B plants will be 8.0 pounds per ton of acid produced, rather than the originally proposed 7.25 pounds per ton of acid produced. Both the sulfur dioxide and acid mist emissions from the A and B sulfuric acid plants are controlled by ammonia scrubbers. The emission rates of both of these pollutants can be reduced by increasing the ammonia feed rate to the scrubbers. It should be noted that only on rare occasions do the sulfur dioxide emissions exceed 8.0 pounds per ton or do acid mist emissions exceed 0.2 pounds per ton. Thus, CPI has already demonstrated that the A and B plants can operate within the proposed emission limits. To assure that the proposed emission limits will not be exceeded in the future, the pH level in the ammonia scrubbers will be increased above 7.0 before plant start-up.

It should be noted that CPI has used EPA Method 8 to determine compliance with sulfur dioxide and acid mist emission limits. The literature documents that ammonia (from the ammonia scrubbers) interferes in the titration for sulfur dioxide and acid mist, resulting in a result that is biased high. Since CPI has had no trouble in demonstrating compliance in the past, even with this interference, no correction for ammonia interference has been requested or discussed with the Department. Should compliance become a problem in the future, a correction for the ammonia bias could be considered.

FDER Request No. 3

State the start-up procedures you intend to use to minimize ambient impacts of sulfur dioxide and acid mist from sulfuric acid plants A, B, C and D. Will there be a specific sequence in start-up of one plant relative to another?

Response:

Should one or more of the sulfuric acid plants be down at the same time, CPI will not start more than one plant at a time. The plant being started would have to achieve compliance before the start-up of the next plant was initiated.

Additionally, CPI follows the procedures outlined below to minimize emissions during sulfuric acid plant start-up:

- 1. Steam from the auxiliary boiler is used to pre-heat the system before sulfur burning is initiated,
- 2. Where possible, only hot acid from another sulfuric acid plant is used for start-up. This should reduce the heat-up period during start-ups and result in sulfur dioxide emissions below 8.0 pounds per ton of sulfuric acid produced within the same time frame as compliance is reached under existing permit conditions, and
- 3. The pH in the scrubbers will increased to 7.0 or greater as stated in the previous response.

No particular plant start-up sequence is proposed since emissions from each of the plants are comparable.

FDER Request No. 4

Submit construction permit applications for Plants A and B, to enable independent review.

Response:

Applications are being prepared and will be submitted to the Department within one week.

January 28, 1988 Page 6

We trust that the information contained herein will permit you to complete your review of the subject construction permit applications for the C and D sulfuric acid plants. As stated herein, separate applications for the A and B plants will be submitted shortly. If you have any questions regarding the information contained herein, please do not hesitate to contact me.

Very truly yours,

KOOGLER & ASSOGIATES

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

JBK:mab

cc: Mr. Paul Roberts, Central Phosphates, Inc. Mr. C. J. Martin, Central Phosphates, Inc.

Copied Pradcep Raval)
Tom Roger 10
CHFIBT
Wayne Aronson-EPA
Miquel Flores-UPS 2:3.88
Barry Andrews

TABLE 1

PRESENT AND PROPOSED PRODUCTION RATES AND EMISSION RATES FOR CPI SULFURIC ACID PLANTS

CENTRAL PHOSPHATES INC. HILLSBOROUGH COUNTY, FLORIDA

		CILI FIIDIC	ACID DI ANT	
	A	B B	ACID PLANT C	D
Date Permitted	1965	1965	1973	1973
Current Permit Conditions				
Rate (tpd) SO ₂ (lb/ton)	1000 10.0 416.7 1825 0.3 12.5 54.8 1.0	1000 10.0 416.7 1825 0.3 12.5 54.8	1900 4.0 316.7 1387 0.15 11.9 52.0 1.0	1900 4.0 316.7 1387 0.15 11.9 52.0 1.0
Actual Conditions (1)				
Rate (tpd) SO ₂ (lb/ton)	1000 10.0 416.7 1774 0.22 9.2 39.0 0.972	1000 10.0 416.7 1774 0.22 9.2 39.0 0.972 78	1900 3.79 300.0 1276 0.15 11.9 50.5 0.971 198.5	1900 3.79 300.0 1276 0.15 11.9 50.5 0.971 198.5
Proposed Conditions				
Rate (tpd) SO ₂ (lb/ton) (lb/hr) (tpy) Mist (lb/ton) (lb/hr) (tpy) Operating Factor Stack Height (ft)	1050 8.0 350.0 1533 0.2 8.8 38.8 1.0	1050 8.0 350.0 1533 0.2 8.8 38.8 1.0	2400 4.0 400.0 1752 0.15 15.0 65.7 1.0 198.5	2400 4.0 400.0 1752 0.15 15.0 65.7 1.0 198.5

⁽¹⁾ Actual conditions documented in original permit application

TABLE 2

DETERMINATION OF THE SIGNIFICANCE OF IMPACTS OF SULFUR DIOXIDE EMISSIONS FROM PROPOSED SULFURIC ACID PLANT MODIFICATIONS

CENTRAL PHOSPHATES, INC. HILLSBOROUGH COUNTY, FLORIDA

MET DATA	MAXIMUM EXPECTED IMPACT (ug/m3)(1)				
YEAR	Annual	3-hour	24-hour		
1973	0	1.0	0.1		
1974	0	0.9	0.1		
1975	0	1.0	0.1		
1978	0	1.2	0.2		
1979	0	1.1	0.2		
Significant Impacts (2)					
mpacts (2)	1	25	5		

⁽¹⁾ Impact determined with ISC-ST model with receptors spaced between 1.0 and 15.0 km from sources. Emission rates represent actual changes (increase or decrease) in emissions from the four sulfuric acid plants.

⁽²⁾ Defined by Rule 17-2.100(171), FAC

TABLE 3

IMPACT OF PSD INCREMENT EXPANDING AND CONSUMING SOURCES NEAR CPI

CENTRAL PHOSPHATES INC. HILLSBOROUGH COUNTY, FLORIDA

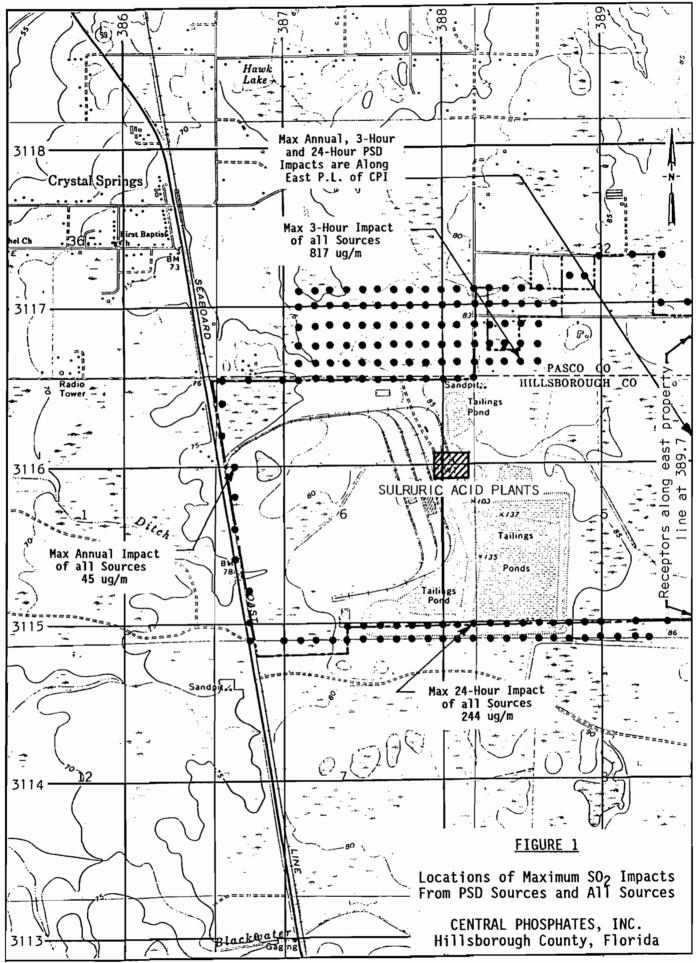
VEAR		EXPECTED IMPACT	
<u>YEAR</u>	Annua1 	3-hour	24-hour
1973	0.8	53	11
1974	0.4	46	10
1975	0.5	52	13
1978	0.0	41	10
1979	0.6	52	14
Class II			
PSD Increment	20	512	91

TABLE 4

IMPACT OF ALL CURRENT SO₂ EMITTING FACILITIES AT CPI

CENTRAL PHOSPHATES, INC. HILLSBOROUGH COUNTY, FLORIDA

	MAXIMUM		
YEAR	Annual	3-hour	24-hour
1973	36	765	204
1974	38	741	204
1975	45	772	245
1978	39	817	230
1979	40	717	229
NAAQS	60	1300	260



Ka

KOOGLER & ASSOCIATES, Environmental Services

<u>RECEIVED</u> DER - MAIL ROOM

4014 N.W. 13th Street • Gainesville, Florida 32609 • 904/377-5822

DER - MAIL ROUGH

1988 MAR -3 AM 10: 59

KA 344-85-01

March 1, 1988

Mr. C. H. Fancy
Deputy Chief
Bureau of Air Quality Management
Florida Department of
Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Subject: Central Phosphates, Inc.

Amendment to Permit Conditions for Sulfuric Acid Plants A and B

Permits A029-65041 and A029-65042

Dear Mr. Fancy:

Central Phosphates, Inc. (CPI) has previously submitted applications to modify two existing sulfuric acid plants at their phosphate fertilizer complex north of Plant City, Florida. The two plants for which modifications have been requested are the C and D sulfuric acid plants. The construction permit numbers for these plants assigned by the Department are AC29-132155, AC29-132157 and PSD-FL119.

In addition to modifying the operating conditions of the C and D sulfuric acid plants, CPI also wishes to amend the operating conditions of the A and B sulfuric acid plants. The A and B sulfuric acid plants are single absorption sulfuric plants permitted in 1965 to operate at a production rate of 1,000 tons per day of 100 percent sulfuric acid, each. The present sulfur dioxide and sulfuric acid mist emission limits for the plants are 10.0 pounds per ton and 0.3 pounds per ton of 100 percent sulfuric acid for SO2 and acid mist, respectively.

CPI proposes to increase the production rate of both the A and B sulfuric acid plants to 1050 tons of 100 percent sulfuric acid per day. This increase in production rate will be accompanied by a reduction in the sulfur dioxide emission limit to 8.0 pounds per ton of 100 percent acid and a reduction in the acid mist emission limit to 0.20 pounds per ton of 100 percent acid. Additionally, the stack heights of both the A and B sulfuric acid plants will be increased from 78 feet to 110 feet, above grade.

EEPRESS	QUESTIONS? C	ALL 800-	238-5355 T	OLL FREE.	AIRBILL NUMBER	PP93	L528L4
7310M 668	3652264 Pate -) . ((4)			the second se	and a contract of a contract o	i Sangalan sayan	and the second s
From (Your Name) Please Print Company		/our Phone Numb	ber (Very Important) or No.	MR.	Name) Please Print C. H. FANCY RIDA DEPT: OF N TOWERS OFFICE	ENVIRONM	iplent's Phone Number (Very Important)
Street Address City ZEPHYR HILLS	State	ZIP Required F	For Correct Invoicing	260 City	O BLAIR STONE		ZIP Street Address Zip Required 32399~2400
YOUR BILLING REFERENCE INFORMATION PAYMENT Gill Sender Bill Recipient's f		FedEx Acct. No.	Bill Credit Ca		HOLD-FOR PICK-UP AT THIS FED Street Address (See Service Gui City ZIP ® Zip Code of Street Addres	de or Call 800-238-535 State	ON: Federal Evoress Lies
SERVICES CHECK ONLY ONE BOX 1 PRIDRITY OF BOX Overnight Delivery 6 COP Bedsigney Overnight Delivery 9 (OV Pedsigney) Using DUR PACKAGING 2 Courier-Pak Overnight Envelope* 3 Courier-Pak Overnight Envelope* 4 Overnight Box 3 Covernight Tube 0 Overnight Tube 0 Overnight Tube 1 Ov	CHECK SERVICES RE 1	Extra charge) s only Extra charge)	Total Total	TOTALLY LA CALL	Emp. No. Cash Received Return Shipment Third Party Chp. To	Date Det Chg. To	Origin Agent Charge
38"x 6"x 6"x 6" 38"x 6"x 6"x 6"x 6"x 6"x 6"x 6"x 6"x 6"x 6	(Extra charge) (Do Not Complete	e Section 5)		Call Stop 5 □ S.C. Station	Received By:	State Zi	PART #106001 REV 5/87 RRINTED U.S.A. SRCE
Sender authorizes Federal Express to deliver this shipm and hold harmless Federal Express from any claims re Release Signature:		and shall indemnify	Date/Time For Fed	eral Express Use			



KOOGLER & ASSOCIATES, Environmental Services

4014 N.W. 13th Street • Gainesville, Florida 32609 • 904/377-5822

KA 344-85-01

March 8, 1988

Mr. Bill Thomas
Florida Department of
Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, FL 32301

RECEIVED

MAR 14 1988

DER-BAQM

Subject:

Central Phosphates, Inc.

Sulfuric Acid Plants A and B Permits A029-65041 and A029-65042

Dear Bill:

Under cover of letter dated March 1, 1988, applications were submitted to your office to amend permit conditions of sulfuric acid plants A and B operated by Central Phosphates, Inc. (CPI) at their phosphate fertilizer complex north of Plant City, Florida. Among other things, it was noted in the applications that the stack heights of the two plants would be increased from 78 feet to 110 feet, above grade.

Beginning March 12, 1988, CPI will begin a planned shutdown of the A and B sulfuric plants for scheduled maintenance. During this shutdown, CPI would like to proceed with the installation of the stack extensions. I spoke with you by telephone regarding this matter on March 3, 1988, and it is my understanding that you stated that it would be acceptable for CPI to proceed with the stack extensions during the scheduled maintenance. You further stated that there was to be no increase in the production rate of either plant (as addressed in the permit applications for the two plants) until the applications for amendment had been reviewed by your office and construction permits issued for the two plants. You reasoned that CPI could proceed with the stack extensions as an increase in stack height (within the confines of good engineering practice stack height limitations) with no increase in emissions would result in a reduction in ambient impacts.

In reviewing the applications that were submitted under cover letter dated March 1, 1988, typographical errors were noted on pages 2 and 2a. I am attaching revised copies of these pages, four sets for each of the two applications, to be inserted in the permit applications.

If there are any questions regarding these matters or if I have misinterpreted your comments on the stack height extensions, please do not hesitate to contact me.

Very truly yours,

KOOGLER & ASSOCIATES

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

JBK:wa Enc.

Mr. W. C. Thomas, FDER, Tampa Mr. Victor San Agustin, Hillsborough County

Environmental Protection Agency

Mr. Paul Roberts, CPI Mr. C. J. Martin, CPI

Copied: Jahn Reynolds 3.15.88mm CHT-18T-Little only

Ju Copy

P.O. Drawer L. Plant City, Florida 33566 Telephone: 813/782-1591

CENTRAL PHOSPHATES, INC., Subsidiary of



CF Industries. Inc.

Plant City Phosphate Complex

PM

22 april 1988

April 22, 1988

RECEIVED

APR 25 1988 Mr. Bill Thomas Bureau of Air Quality Management Florida Department of Environmental Regulation DER-BAQIVI Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

RE:

Central Phosphates, Inc.

Amendment to Construction Permit

Conditions for Sulfuric Acid Plants A, B, C, & D

Permits: AC 29-146176, AC 29-146177, AC 29-132155, AC 29-132157

Dear Mr. Thomas:

Construction for the subject project will not be completed until August 31, 1988. In order to allow one (1) month for compliance testing and preparation of the operating permit application, plus the required 90 days for approval, we are requesting the expiration date for the construction permits be extended from September 30, 1988 to December 31, 1988.

We have reviewed the April 5, 1988 Technical Evaluation and Preliminary Determination and proposed permits and have no comments other than the request for extension of the expiration date.

Sincerely,

Paul R. Roberts

Manager Engineering

PRR/tjj

J. Koogler, P.E. Pradee Raval, DER

Copied: CHF/BT Roual & 4.25.88 For

4125188

CF Industries, lac.

PLANT CITY PHOSPHATE COMPLEX
P. O. DRAWER L
PLANT CITY, FLORIDA 33566



Down & Ci



Mr. Bill Thomas
Bureau of Air Quality Management
Florida Dept. of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

PM 250pr. 1988 Tompa, FL

RECEIVED

su copy.

Published Daily Tampa, Hillsborough County, Florida

THE TAMPA TRIBUNE

APR 27 1988

State of Florida County of Hillsborough

DER-BAOM

newspape	eason, who on oa er published at To isement being a	th says that he	is Controller o	l authority perso f The Tampa T Florida; that the	ribune, a daily e attached copy
		LEGAL	NOTICE.		
in the ma	tter of	Notic	se of Inte	 ∋nt	
was publi	shed in said news	paper in the issue-April 19	ues of	· · · · · · · · · · · · · · · · · · ·	
Tampa, heretoford and has l Hillsborod tion of th paid nor	fiant further says in said Hillsbor e been continuous been entered as s ugh County, Flor e attached copy o promised any per or the purpose o	ough County, sly published in second class ma ida, for a perio of advertisemen rson, firm, or co	Florida, and said Hillsboro il matter at the dof one year not; and affiant forporation any	that the said in t	newspaper has orida, each day Tampa, in said he first publica- t he has neither , commission or
Sworn to	and subscribed be	efore me, this	25th dag	y	
of		April)., A.D. 19) . [38 Control	rehaio
(SEA	AL)		My Commission Ex Bonded Three Troy	xpires Ján. 6, 1969 Fain - Insulance, Inc.	r
-, <u>-</u>					
	I. Chora	remo proon. IEPA NO. NPS NOO, SW D Newbo, EPCH	آمن	g.e8	
Rermita	B = AC 29	9-146176 1- 146177 3-132155			

D = AC 29-132157

PSD-FL-119

State of Florida Department of Environmental Regulation

Notice of Intent
The Department of Environmental Regulation hereby
gives notice of its Intent to
issue permits to Central
Phosphates, inc. to Install
cogeneration capability at
their existing facility located
in Hillsborough County, Florida. Energy enhancements include increases in the production rates of Sulturic Acid
Plants A and B from 1000 tons
per day (TPD) to 1050 TPD
(100% acid), and Plants C and
D from 1900 TPD to 2400 TPD
(100% acid). The project will
involve changes in pump
sizes, plping, catalyst quantity
and installation of a steam
turbine. The project will involve changes in pump
sizes, plping, catalyst quantity
and installation of a steam
turbine. The project will result
in a significant increase in
emissions of sulfur dioxide
(SO2) and sulfuric acid mist.
The Department is issuing this
intent to Issue for the reasons
stated in the Technical Evoluation and Preliminary Determination.
Persons whose substantial
interests are affected by the
Department's praposed permitting decision may petition
for an administrative determination (hearing) in accordance
with Section 120.57, Fiorida
Statutes. The petition must
conform to the requirements
of Chapters 17-103 and 28-5,
Fiorida Administrative Code,
and must be filed (received) in
the Department's Office of
General Counsel, 2600 Blair
Stantes and the person has to
request an administrative determination (hearing) under
Section 120.57, Florida Stattites.

termination (hearing) under Section 120.57, Florida Statutes.

If a petition is filed, the ad ministrative hearing process is designed to formulate agency oction. 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 finol hearing and be filled with the hearing and be filled with the hearing officer if ane has been assigned at the Division of Administrative Hearings, Department of Administrative, 1200, Apolachee Parkway, Tallohassee, Fiorida 32301. If no hearing officer has been assigned, the petition is to be filled with the Department's Office of General Caunsel, 2600 Blair Stone Road, Tallahassee, Fiorida 32399-2400. Fallure to petition to intervene within the allowed time frame constitutes a wolver of any right such person has to request a hearing under Section

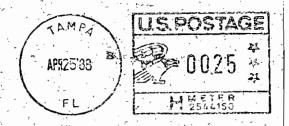
constitutes a wolver of any right such person has to request a hearing under Section 120.57, Florida Statutes.

The application is available for public inspection during normal business haurs, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:
Dept. of Environmental Regulation Bureau of Air Quality Management 2600 Bigir Stone Road Tallahassee, Florida 32399-2400

Florida 32399-2400

Falichassee,
Florida 32399-2400
Dept. of
Environmental Regulation
Southwest District Office
4520 Live Oak Fair Bivd.
Tampa, Florida 33610-7347
Hillsborough County
Environmental
Protection Commission
1410 N. 21st Street
Tampa, Florida 33605
Any person may send written comments on the proposed action to Mr. Bill Thamas at the Department's Tallahassee address. All comments mailed within 30 days of the publication of this notice will be considered in the Department's final determination.
4/19/88

The Tampa Tribune



Mr. Bill Thomas
Bureau of Air Quailty Mgmt
Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee FL 32399-2400

202 S. Parker Street Tampa, FL 33606 P.O. Box 191, Tampa, FL 33601

իրևուներների հայերերին հուների և



1988 Jul Copy

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

ATLANTA, GEORGIA 300 E CEIVED

MAY 0 9 1988

MAY 11 1988

4APT-APB

DER - BAQM

C. H. Fancy, P.E., Deputy Chief Bureau of Air Quality Management Florida Department of Environmental Regulation Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Re: Preliminary Determination for Central Phosphates, Inc. (PSD-FL-131)

Dear Mr. Fancy:

This is to acknowledge our receipt of your preliminary determination and draft permit for the proposed modification of the A, B, C, and D sulfuric acid plants at Central Phosphates, Inc. After reviewing the preliminary determination package, we concur with your analysis and will not subject this determination to review under the Region IV Overview of State Programs policy.

Please submit copies of the final determination and final permit when they are issued. If you have any further comments, please contact me or Gary Ng of my staff at (404) 347-2864.

Sincerely yours,

Bruce P. Miller, Chief

Air Programs Branch

Buce f. Miller

Air, Pesticides, and Toxics

Management Division

Copied: Pradeep Raval
Bill Momad, Sw Dist.

Jerry Compbell, EPCHC 5. 12.88

Tom Rogers

Barry Ondrews

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV 345 COURTLAND STREET ATLANTA, GEORGIA 30365

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE. \$300
ATR-4

MAY-9'88 PENALTY U.S.PUSTAGE MAY-9'88 PENALTY U.S.PUSTAGE DESCRIPTION OF THE PROPERTY OF THE P

C. H. Fancy, P.E., Deputy Chief
Bureau of Air Quality-Management
Florida Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400 5-12-88

Adhalalalli

FYI

20



State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

	For Routing To Other	Than The Addresses
b		Location
b		Looker
b		Location
fign _		Own

Interoffice Memorandum

TO: Dale Twachtmann

PROM: Howard L. Rhodes

SUBJ: Approval of Central Phosphates Inc.'s Sulfuric Acid

Plants A, B, C, and D

State Construction Permit Numbers: AC 29-146176, -146177,

-132155, -132157

Federal Permit Number: PSD-FL-119

DATE: May 25, 1988

Attached for your approval and signature are permits prepared by Central Air Permitting for the above mentioned company to install cogeneration capability at their facility while increasing the production rates of sulfuric acid plants A, B, C, and D.

The facility is located in Plant City, Hillsborough County, Florida. Comments were received during the public notice period and have been addressed in the Final Determination.

Day 90, after which these permits will be issued by default, is May 31, 1988.

I recommend your approval and signature.

HLR/agm/pr

attachments



DER - BAY

Office of the Secretary



KOOGLER & ASSOCIATES, Environmental Services

4014 N.W. 13th Street • Gainesville, Florida 32609 • 904/377-5822

DER-MAR. REG.

1989 MAR -3 MI 10: 59

KA 344-85-01

March 1, 1988

Mr. C. H. Fancy
Deputy Chief
Bureau of Air Quality Management
Florida Department of
Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Subject: Central Phosphates, Inc.

Amendment to Permit Conditions for Sulfuric Acid Plants A and B

Permits A029-65041 and A029-65042

Dear Mr. Fancy:

Central Phosphates, Inc. (CPI) has previously submitted applications to modify two existing sulfuric acid plants at their phosphate fertilizer complex north of Plant City, Florida. The two plants for which modifications have been requested are the C and D sulfuric acid plants. The construction permit numbers for these plants assigned by the Department are AC29-132155, AC29-132157 and PSD-FL119.

In addition to modifying the operating conditions of the C and D sulfuric acid plants, CPI also wishes to amend the operating conditions of the A and B sulfuric acid plants. The A and B sulfuric acid plants are single absorption sulfuric plants permitted in 1965 to operate at a production rate of 1,000 tons per day of 100 percent sulfuric acid, each. The present sulfur dioxide and sulfuric acid mist emission limits for the plants are 10.0 pounds per ton and 0.3 pounds per ton of 100 percent sulfuric acid for SO2 and acid mist, respectively.

CPI proposes to increase the production rate of both the A and B sulfuric acid plants to 1050 tons of 100 percent sulfuric acid per day. This increase in production rate will be accompanied by a reduction in the sulfur dioxide emission limit to 8.0 pounds per ton of 100 percent acid and a reduction in the acid mist emission limit to 0.20 pounds per ton of 100 percent acid. Additionally, the stack heights of both the A and B sulfuric acid plants will be increased from 78 feet to 110 feet, above grade.

The increase in the acid production rate accompanied by the reduction in the SO2 and acid mist emission limits will result in a net reduction in the emission rates of both SO2 and acid mist. Nitrogen oxide emissions will increase slightly (2.8 tons per year) as a result of the production rate increase. Since the production rate increases in both plants can be accomplished with no significant physical changes to the plants and since the increases in production rate will be accompanied by reductions in sulfur dioxide and acid mist emissions and a de minimis increase in nitrogen oxide emissions, the changes can be considered amendments to permit conditions rather than modifications as defined by rule.

The request for amendments is being submitted in the form of construction permit applications however so the amended permit conditions and all of the conditions associated with the operations of the two plants will be federally recognizable and federally enforceable. The construction permit applications for both the A and B sulfuric acid plants are attached hereto and include all information necessary to review the requested amendments. Air quality modeling demonstrating that the proposed emission rates from the A and B plants will not cause or contribute to violations of ambient air quality standards has been submitted with the construction permit applications for the C and D sulfuric acid plants.

Since the operating permits for both the A and B sulfuric acid plants expire on March 31, 1988, CPI has filed applications to renew these operating permits. It is expected that the amendments requested in the attached construction permit applications will become amendments to the renewed operating permits for the two plants.

If there are any questions regarding these applications or any additional information is necessary to complete your review of the applications, please do not hesitate to contact me.

Very truly yours,

KOOGLER & ASSOCIATES

John B. Koog Per, Ph.D., P.E.

JBK:wa

cc: Mr. Paul Roberts, CPI Mr. C. J. Martin, CPI

Mr. Jerry Campbell, Hillsborough County Environmental

Protection Commission

Copied: Jahn Ryralds) note to JR to admen y

CHF/BT

COPIES of permit should

be sent to EPA ENPS. (m) 3/5/88

Ju Copy P.O. Drawer L.
Plant City, Florida 33566

CENTRAL PHOSPHATES, INC., Subsidiary of



April 22, 1988

PM

22 april 1958

RECEIVED

Telephone: 813/782-1591

Mr. Bill Thomas APR 25 1988 Bureau of Air Quality Management Florida Department of Environmental Regulation DER - BAQivi Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

RE:

Central Phosphates, Inc. Amendment to Construction Permit Conditions for Sulfuric Acid Plants A, B, C, & D Permits: AC 29-146176, AC 29-146177, AC 29-132155, AC 29-132157

Dear Mr. Thomas:

Construction for the subject project will not be completed until August 31, 1988. In order to allow one (1) month for compliance testing and preparation of the operating permit application, plus the required 90 days for approval, we are requesting the expiration date for the construction permits be extended from September 30, 1988 to December 31, 1988.

We have reviewed the April 5, 1988 Technical Evaluation and Preliminary Determination and proposed permits and have no comments other than the request for extension of the expiration date.

Sincerely,

Paul R. Roberts Manager Engineering

PRR/tjj J. Koogler, P.E. Pradee Raval, DER

Copied CHF/BT Robal & 425:38 FO