Golder Associates Inc.

6241 NW 23rd Street, Suite 500 Gainesville, FL 32653-1500 Telephone (352) 336-5600 Fax (352) 336-6603

July 24, 1997

Mr. Al Linero, P.E. Bureau of Air Regulation Florida Department of Environmental Protection 2600 Blair Stone Road Tallahassee, FL 32399-2400

Re: Cargill Fertilizer, Inc.

Bartow Nos. 4 and 5 Phosphoric Acid Plants

AC53-262532; PSD-FL-224



Dear Mr. Linero:

On behalf of Cargill, Inc., I am submitting a revised flow diagram for the phosphoric acid plant at the Bartow facility. The flow diagram for the Bartow phosphoric acid plant has been revised to indicate that the acid from the No. 5 Reactor can also be routed to the No. 3 Filter. This alternative operating mode was not shown on the original flow diagram submitted with the application.

This process flow configuration provides the flexibility to distribute phosphoric acid to any of the three filters. For example, if the No. 4 Reactor and No. 4 Filter are shutdown, acid from the No. 5 Reactor could be routed to the No. 3 Filter. This flexibility does not change any existing permit conditions, production rates, or emission rates.

This information is being provided for your records. Please call if you have any questions concerning this information.

Sincerely.

David A. Buff, P.E.

David a. Buff

Principal Engineer

Florida P.E. #19011

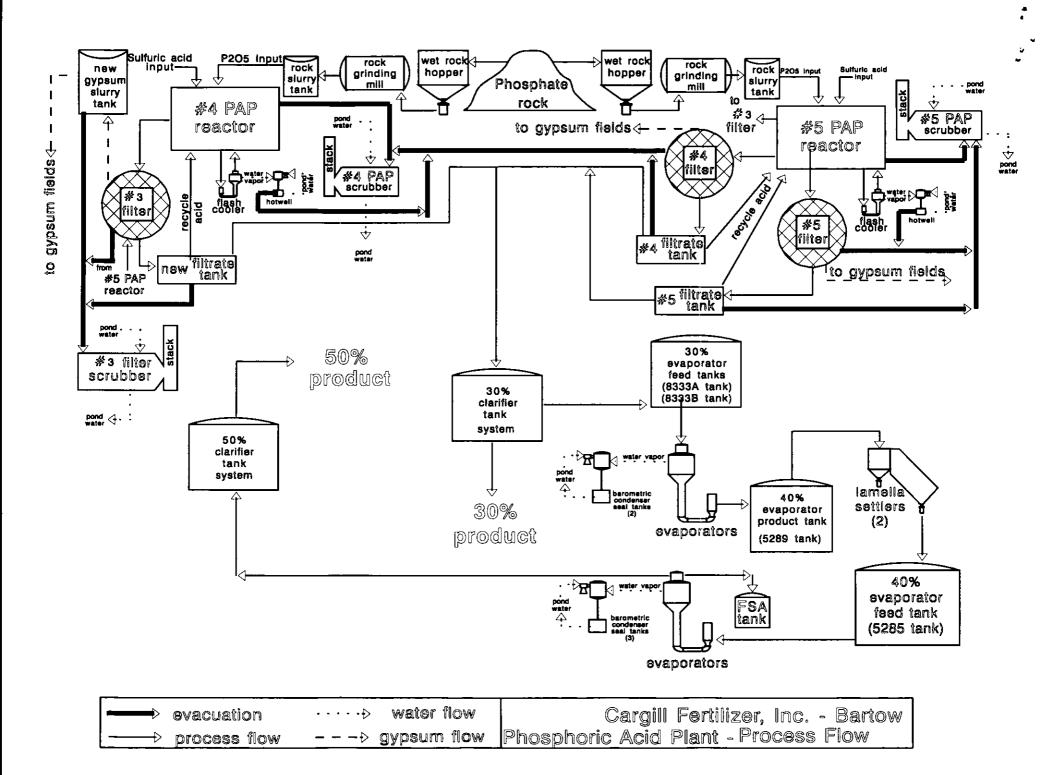
SEAL

DB/arz

cc: David Jellerson

File (2)

CC: J. Reynolds, BAR





Department of Environmental Protection

Lawton Chiles Governor Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Virginia B. Wetherell Secretary

April 1, 1997

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. David Jellerson, P.E. Environmental Engineer Cargill Fertilizer, Inc. Post Office Box 9002 Bartow, Florida 33830

Re: Modification of Permit No. AC53-262532 (PSD-FL-224) AIRS I.D. No. 1050044-002-AC Bartow Nos. 4 and 5 Phosphoric Acid Plants

Dear Mr. Jellerson:

The Department received Cargill's December 16 letter requesting a modification of the above referenced permit. The permit is hereby modified as shown below:

FROM: (Page 1 - Paragraph 2)

For the increase in production of the No. 4 and No. 5 Phosphoric Acid plants from a total of 140 to 170 tons P_2O_5 per hour along with the construction of a new phosphoric acid filter and scrubber.

(Page 1 - Paragraph 2)

For the increase in production of the No. 4 and No. 5 Phosphoric Acid plants from a total of 140 to 170 tons P_2O_5 per hour along with the construction of a new phosphoric acid filter and scrubber. Additional equipment to be installed includes a phosphoric acid evaporator, condenser and seal tank, fluosilicic acid recovery unit and seal tank.

A copy of this letter shall be filed with the referenced permit and shall become part of the permit.

Sincerely,

Howard L. Rhodes, Director

Division of Air Resources

Management

HLR/aal/hh

Mr. David Jellerson April 1, 1997 Page 2

CERTIFICATE OF STRVICE

The undersigned duly designated deputy agency clerk hereby certifies that this MODIFICATION was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on $\frac{1}{2} - \frac{1}{2} - \frac{1}{2} = \frac{1}{2}$ to the person(s) listed:

Mr. David Jellerson, Cargill Fertilizer, Inc. *

Mr. Brian Beals, EPA

Mr. Roy Harwood, Polk County

Mr. David A. Buff, P.E.

Mr. Bill Thomas, SWD

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to §120.52(7), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

(Clerk)

(Date)

P 339 251 187

US Postal Service

No Insurance Coverage Do not use for Internatio	nal Mail <i>(See reverse)</i>
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P50-H-224	•

SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, 4a, and 4b. Print your name and address on the reverse of this form so the card to you. Attach this form to the front of the mailpiece, or on the back if permit. Write "Return Receipt Requested" on the mailpiece below the a "The Return Receipt will show to whom the article was delivered delivered.	space does not article number.	I also wish to red following service extra fee): 1. Address 2. Restrict Consult postma:	es (for an see's Address ed Delivery
3. Article Addressed to: David Selerson, P.E. Carsill Fertilizer PO Box 9002 Darrow, 91 33830	4a. Article N 4b. Service Registere Express Return Re 7, Date of D	Type ed Mail ceipt for Merchandis	Certified Insured .
5. Received By: (Print Name) 6. Signature: (Addressee or Agent) X J L L L L L L L L L L L L L L L L L L	8. Addresse and fee is		· .
PS Form 3811, December 1994		Domestic Re	turn Heceipt

Florida Department of Environmental Protection

TO:

Howard L. Rhodes

THRU:

Clair Fancy

FROM:

Al Linero Classico 41

DATE:

April 1, 1997

SUBJ:

Cargill/Riverview & Bartow Plants/PSD-FL-224 & PSD-FL-231

Attached are letters modifying the subject construction permits to include an expanded process description with no change in the emission limits. The changes were requested so that equipment could be installed to extend the operating time between shutdowns. Due to the associated possibility for increased actual memissions resulting from a higher operating factor, permit modifications were required for these changes. No comments were received following the publication of the notice of intent to issue.

Both plants underwent PSD review very recently. They did not fully describe the process changes associated with the original project. We required modification of permit, but not another PSD review.

I recommend your approval and signature.

AL/jr/t

Golder Associates Inc.

6241 NW 23rd Street, Suite 500 Gainesville, FL 32653-1500 Telephone (352) 336-5600 Fax (352) 336-6603 January 29, 1999



9837578A/02

Florida Department of Environmental Protection 3804 Coconut Palm Drive Tampa, Florida 33619

RECEIVED

FEB 0 3 1999

BUREAU OF AIR REGULATION

Attention: Mr. Gerry Kissel, P.E.; Air Permitting Supervisor

RE:

CARGILL FERTILIZER, INC.

1050046-003-AV; AC53-262532; PSD-FL-224

PHOSPHORIC ACID PLANT MODERNIZATION

Dear Mr. Kissel:

In follow up to a recent discussion with John Reynolds of the FDEP Tallahassee, New Source Review Section, Cargill Fertilizer, Inc. is submitting the following information in regards to the recent request to modernize the Phosphoric Acid Plant (PAP) at the Bartow fertilizer plant. Each item of information, as requested by Mr. Reynolds is presented below.

1. Technical Articles Describing the Upgrade

There are no known technical articles or published papers describing the requested PAP modernization or the No. 4 Reactor changes. Cargill's own in-house engineers are continually evaluating the operation of systems, looking at ways to improve reliability and efficiencies, and to implement pollution prevention practices. Through these efforts, the PAP modernization project was developed and engineered.

2. Changes in Temperatures Inside the Reactor

As a result of the proposed changes, both the maximum and the average temperatures inside the No. 4 Reactor will be reduced. The improved circulation in the reactor will reduce the peak temperature at the sulfuric acid feed area while the additional cooling provided by the upgraded barometric condensers will slightly reduce the overall temperature.

3. Changes in Surface Area Inside the Reactor

The current liquid surface area inside the No. 4 Reactor is approximately 3,000 ft². The proposed changes to the reactor will increase the liquid surface area by 650 to 800 ft², or about a 25% increase in surface area.

4. Changes in Air Flow Inside the Reactor

No change in total air flow through the reactor is anticipated due to the proposed changes. Neither the exhaust fan nor the design of the wet scrubber serving the No. 4 Reactor will be changed. In fact, total air flow through the reactor could decrease slightly due to slightly higher pressure drop throughout the system. Since the total void volume inside the reactor will be increasing, the air velocity within the reactor will decrease proportionately.

5. Ability of Existing Scrubber to Handle Changes

No additional fluoride loading to the scrubber will result from the proposed changes. As described above and in the previous submittal, the modernization of the No. 4 Reactor will not result in an increase of the phosphate rock, P_2O_5 , or sulfuric acid feed rates to the reactor, or the airflow from the evacuation of the reactor. Cargill agrees with DEP's assertion presented in its BACT determination for the recently permitted No. 3 Filter (AC53-262532), that fluorine emissions are a function of the evacuation rate of a given vessel. Although the surface area of slurry exposed to the evacuation air will increase by adding compartments to the No. 4 PAP reactor, the evacuation rate of the gases above the vessel will not be changed. The overall temperatures in the reactor will decrease. Since the rate of evacuation air moving over the slurry and overall temperatures in the modernized reactor will not be increased, no increase in fluoride emission rates above current actual emission rates is anticipated. Since the fluoride loading to the scrubber will not be increased, the existing scrubber is well equipped to handle the proposed modernization.

As stated in the previous submittal, we believe the described modernization of the Phosphoric Acid Plant does not require a construction permit since there will be no increase in actual emissions. The PAP already frequently operates within 90% of the maximum permitted capacity. We request DEP's confirmation of our assessment.

If you have any questions concerning Cargill's proposed changes to the PAP, or our evaluation of permitting requirements, please call me at (352) 336-5600.

Sincerely,

GOLDER ASSOCIATES INC.

David a. Buff

David A. Buff, P..E. Florida P.E. #19011

SEAL

DB/arz

Enclosure

cc: David Jellerson, Cargill Taylor Abel, Cargill John Reynolds, FDEP Tallahassee File (2)

P:\98\9837\9837578A\02\phosrsp1.doc



Department of **Environmental Protection**

Lawton Chiles Governor Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Virginia B. Wetherell Secretary

April 17, 1997

Ms. Mary Buff Golder Associates Inc. 6241 N.W. 23rd Street, Suite 500 Gainesville, Florida 32653-1500

RE: Cargill Fertilizer, Inc. Riverview, 0570009-018-AC Cargill Fertilizer, Inc., Bartow, 1050046-005-AC

Dear Mary:

As we discussed, enclosed are two Application for Refund Forms for the duplicate processing fees submitted in October 1996, by KBN for the above referenced projects. Both forms should be signed on the Applicant's Signature line and returned to me for processing. If you have any questions, please call me at (904)921-9505.

Sincerely,

Patty Adams

Bureau of Air Regulation

/pa

Enclosures

Treasury.

APPLICATION FOR REFUND FORM THE STATE OF FLORIDA

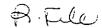
DEPARTMENT OF ENVIRONMENT	TAL PROTECTION
STATE OF FLORIDA, COUNTY OF	
Pursuant to the provisions of Section 215.26, or	Section*, Florida Statutes,
I hereby apply for a refund and request that a State W	arrant be drawn in lavor of:
NAME: KBN ENGINEERING AND APPLIED SCIENCES	
ADDRESS: 6241 N.W. 23RD STREET, SUITE 500 GAINE	SVILLE, FL 32653-150
FEID OR SS NUMBER:	·•···
AMOUNT: \$250.00 DEPOSIT DATE: 03-OCT-96 DE	POSIT: 370602
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substantiate such claim the following facts are submit	.cea.
REASON FOR CLAIM: DUPLICATE PAYMENT	•
CERTIFIED TRUE AND CORRECT this day of	, 19
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Appl	icant's Signature
*Must be completed if authority is other than Section	
***********	*****
(FOR AGENCY USE C	ONLY)
(1) Agency recommends denial of above claim based on t	the following facts, including
statutory authority for collection:	
OR	
(2) Agency recommends approval of above claim and sub	mits the following information
to substantiate such claim. \$250.00 was originall	v deposited into the State Treasury.
Receipt, dated	., ucpobles into the least transfer
NAME OF ACCOUNT:	
SAMAS ACCOUNT CODE	
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Statutory Authority for Collection	
It is requested that payment be made from:	 -
NAME OF ACCOUNT:	
SAMAS ACCOUNT CODE	
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CERTIFIED TRUE AND CORRECT this day of	, 19 .
	
	
Signature and Title of Authorize	
Signature and Title of Authorize	ed Person
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APPLICATION FOR REFUND FORM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STATE OF FLORIDA, COUNTY OF
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Pursuant to the provisions of Section 215.26, or Section*, Florida Statutes,
I hereby apply for a refund and request that a State Warrant be drawn in favor of:
NAME: KBN ENGINEERING AND APPLIED SCIENCES
ADDRESS: 6241 N.W. 23RD STREET, SUITE 500 GAINESVILLE, FL 32653-150
FEID OR SS NUMBER:
270602
REV OBJECT CODE: 2222 AIR CONSTRUCT
which represents moneys I paid into the State Treasury subject to refund, and to
substantiate such claim the following facts are submitted:
REASON FOR CLAIM: DUPLICATE PAYMENT
CERTIFIED TRUE AND CORRECT this day of, 19
CERTIFIED TRUE AND COMMON CHIEF CENT CENT
K.
Parlicent/a Signature
Applicant's Signature
*Must be completed if authority is other than Section 215.26, Florida Statutes.

(FOR AGENCY USE ONLY)
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OR
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Department of Environmental Protection

Lawton Chiles Governor Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Virginia B. Wetherell Secretary

April 1, 1997

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. David Jellerson, P.E. Environmental Engineer Cargill Fertilizer, Inc. Post Office Box 9002 Bartow, Florida 33830

Re: Modification of Permit No. AC53-262532 (PSD-FL-224)

AIRS 1.D. No. 1050044-002-AC

Bartow Nos. 4 and 5 Phosphoric Acid Plants

Dear Mr. Jellerson:

The Department received Cargill's December 16 letter requesting a modification of the above referenced permit. The permit is hereby modified as shown below:

FROM: (Page 1 - Paragraph 2)

For the increase in production of the No. 4 and No. 5 Phosphoric Acid plants from a total of 140 to 170 tons P_2O_5 per hour along with the construction of a new phosphoric acid filter and scrubber.

TO: (Page 1 - Paragraph 1)

For the increase in production of the No. 4 and No. 5 Phosphoric Acid plants from a total of 140 to 170 tons P₂O₅ per hour along with the construction of a new phosphoric acid filter and scrubber. Additional equipment to be installed includes a phosphoric acid evaporator, condenser and seal tank, fluosilicic acid recovery unit and seal tank.

A copy of this letter shall be filed with the referenced permit and shall become part of the permit.

Sincerely,

Howard L. Rhodes, Director

Division of Air Resources

Management

HLR/aal/hh

Mr. David Jellerson April 1, 1997 Page 2

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this MODIFICATION was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on $\frac{1}{1} - \frac{1}{1} - \frac{1}{1}$ to the person(s) listed:

Mr. David Jellerson, Cargill Fertilizer, Inc. *

Mr. Brian Beals, EPA

Mr. Roy Harwood, Polk County

Mr. David A Buff, P.E.

Mr. Bill Thomas, SWD

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to §120.52(7), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

(Clerk)

(Date)



P.O. Box 9002 • Bartow, Florida 33831 • Telephone 941-534-9610 • FAX 941-534-9680

February 27, 1997

CERTIFIED MAIL: P 013 142 61 RECEIVED

MAR 3 **1997**

BUREAU OF

AIR REGULATION

Mr. Al Linero Florida Department of Environmental Protection Bureau of Air Regulation 2600 Blair Stone Road Tallahassee, FL 32399-2400

Dear Mr. Linero,

Draft Permit Modification No. 1050044-001-AC, PSD-FL-224 Re:

Public Notice - Proof of Publication

Please find enclosed a certified affidavit of publication of the public notice for the above-referenced permit modification. The public notice was published in the Lakeland Ledger newspaper on February 26, 1997.

Should you have any questions, or require additional information, please feel free to give me a call at (941)534-9613.

Sincerely,

David B. Jellerson, P.E.

Environmental Superintendent

cc:

Morris

Buff (Golder)

P-20-03

D. Buff, Helder assoc. Polk Co J. Reynolds, BAR

AFFIDAVIT OF PUBLICATION

THE LEDGER Lakeland, Polk County, Florida

STATE OF FLORIDA) COUNTY OF POLK)
Before the undersigned authority personally appeared Nelson Kirkland, who on oath says that he is Classified Advertising Manager of The Ledger, a daily newspaper published at Lakeland in Polk County, Florida: that the attached copy of advertisement, being a
Public Notice Of Intent ,
in the matter of
No: 1050044-001-AC, (PDS-FL-224)
in the
Court, was published in said newspaper in the issues of
February 26;

Case No

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 post office 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.

Nelson Kirkland

Classified Advertising Manager

By Nelson Kirkland who is personally known to me

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DRAFT Permit Modification No.: 1050044-001-AC (PSD-FL-224) Bartow Polk County

The Department of Environmental Protection (Department) gives notice of its Intent to Issue an air construction permit modification to Cargilli Fertilizer, Inc., for the No. 4, and 5 Phospharic Acid Plants located at 3200 Highway 60 West, Bartow, Polk County, Florida, A Best Available Control Technology (BACI) determination was not required pursuant to Rule 62-212.400, F.A.C., and 40 CFR 52-21, Prevention of Significant Deterioration (PSD), the applicant's name and address are: Cargill Fertilizer, Inc., 3200 Highway 60 West, Bartow, Florida 33830.

The permit modification is for the purpose of allowing the Installation of additional process equipment including a phosphoric acid evaporator to extend the period between shutdowns for maintenance.

Emissions increases creditable to this change were considered in a recently-issued permit for a production increase at this facility. A BACI determination was made for that action. The Department will issue the FiNAL Permit Modification. In accordance with the conditions of the DRAFT Permit Modification unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

Conditions.

The Department will occept written comments concerning the proposed DRAFT Permit Modification issuance action for a period of 30 (thirty) days from the date of publication of this Notice. Written comments should be provided to the Department's Bureau of Air Regulation. 2600 Biali Stone Road. Mail Statlon #5505. Tallahassee. Florida 32399-2400. Any written comments filled shall be made available for public inspection. If written comments received result in a significant change in this DRAFT Permit Modification, the Department shall issue a Revised DRAFT Permit Modification and require. If applicable, another Public Notice.

The Department will issue FINAL Permit Modification with the conditions of the DRAFT Permit Modification unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57 F.S. or a party requests mediation as an atternative remedy under Section 120.573 before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation above not result in a settlement, the procedures for petitioning for a hearing ore set forth below, followed by the procedures for requesting mediation.

forth below, followed by the procedures for requesting medicition.

A person whose substantial interests are affected by the Department's proposed pernitting decision may petition for an administrative hearing in occordance with Sections 120.569 and 120.57 F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Mall Station #35, Ialiahassee, Florida 32399-3000, telephone: 904/488-9370, Tax: 904/487-4938, Petitions must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing, the follure of any person to file a petition for a request for mediation, as discussed below) within the appropriate time period shall constitute a woiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to the appropriate and period shall constitute a woiver of the foliation of the presiding officer upon the filing of a motion in compliance with Rule 28-5.207 of the Florida Administrative Code.

A petition must contain the following information: (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the 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

A person whose substantial interests are affected by the Department's proposed permitting decision, may elect to pursue mediation by asking all parties to the proceeding to agree to such mediation and by filling with the Department a request for mediation and the written agreement of all such parties to mediate the dispute. The request and agreement must be filed in (received by) the Office of General Counsel of the Department, 3000 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000, by the same deadline as set forth above for the filing of a petition.

A request for mediation must contain the following information: (a) The name, address, and telephone number of the person-requesting mediation and that person's representative. If any, (b) A statement of the relief sought; and (d) Either an explanation of now the requester's substantial interests will be affected by the action or proposed action addressed in this notice of intent or a statement clearly identifying the petition for hearing that the requester has already filed, and incorporating it by reference.

Incorporating if by reference.

The agreement to mediate must include the following: (a) The names, addresses, and telephone numbers of any persons who may attend the mediation: (b) The name, address, and telephone number of the mediator selected by the parties, or a provision for selecting a mediator within a specified time; (c) The agreed allocation of the costs and fees associated with the mediation; (d) The agreement of the parties on the confidentiality of discussions and documents introduced during mediation; (e) The date, time, and place of the first mediation session; or a deadline for holding the first session. If no mediator has yet been chosen; (f) The name of each party's representative who shall have authority to settle or recommend settlement; and (g) The signatures of all parties or their authorized representatives.

representatives.

As provided in Section 120 573 F.S., the timely agreement of all parties to mediate will foil in time time limitations imposed by Sections 120.569 and 120.57 F.S. for requesting and holding an administrative hearing. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons whose substantial interests will be affected by such modified final aecision of the Department have a right to petition for a heating only in accordance with the requirements for such peritions set form above. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under Sections. 120.569 and 120.57 F.S. remain available for disposition of the dispute, and the notice will specify the deadlines that then will apply for challenging the agency action and electing remedies under those two statutes.

A complete project file is available for public

A complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal ho:days, at:

Department of Environmental Protection Bureau of Air Regulation 111 S. Magnolia Drive. Suite 4 Tallahassee. Florada. 32301 Telephone: 904/488-1344 Fax: 904/922-6979

Department of Environmental Protection Southwest District Office 3804 Coconut Patim Drive Tampa, Florida 33619-8218 Telephone: (813) 744-6100 fax: (813) 744-6084

The complete project file includes the Draft Permit Modification, the application, and the information submitted by the responsible official, exclusive of confidential records under Section 403 111, F.S. Interested persons may contact the Administrator New Resource Review Section 1111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301, or cal 904/488-1344, for additional information.

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