



KOOGLER & ASSOCIATES  
ENVIRONMENTAL SERVICES

4014 NW THIRTEENTH STREET  
GAINESVILLE, FLORIDA 32609  
352/377-5822 ■ FAX 377-7158

KA 124-96-03

September 30, 1997

**RECEIVED**

OCT 02 1997

BUREAU OF  
AIR REGULATION

Mr. Cleve Holladay  
Florida Department of  
Environmental Protection  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Subject: Comments on PSD Permit PSD-FL-235  
Sulfuric Acid Plants 10 & 11  
IMC-Agrico Company (South Pierce)  
Polk County, Florida

Dear Mr. Holladay:

We have reviewed the above referenced final permit, issued September 15, 1997, and request two changes to the permit.

1. Please retain the draft permit language which allows for a revision of nitrogen oxides emission limit:

"The NO<sub>x</sub> limit, based on a general emission factor, is subject to revision if sufficient test data indicate that the emission factor is improper."

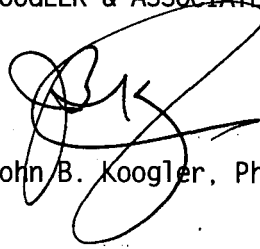
RATIONALE: FDEP is well aware that NO<sub>x</sub> emissions from the sulfuric acid plants are uncontrolled. The NO<sub>x</sub> emissions from the process are not controlled by the operator. FDEP is also in agreement that there is no viable add-on NO<sub>x</sub> control technology for the sulfuric acid plants.

2. It is requested that the nitrogen oxides test requirement for the sulfuric acid plants, contained in Specific Conditions B12 and C12, be changed from annual to an initial test followed by testing every five years just prior to permit renewal. This would eliminate the unnecessary and unproductive time and expense associated with annual NO<sub>x</sub> testing. The rationale provided for Item 1 is also valid for this request.

If you have any questions, please call Pradeep Raval or me.

Very truly yours,

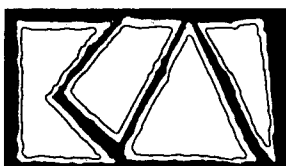
KOOGLER & ASSOCIATES

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

JBK:par

c: C. Dave Turley, IMC-Agrico

cc: SWP  
PolkCo  
NPS  
EPA



KOOGLER & ASSOCIATES  
ENVIRONMENTAL SERVICES

4014 NW THIRTEENTH STREET  
GAINESVILLE, FLORIDA 32609  
352/377-5822 ■ FAX 377-7158

KA 124-96-03

August 12, 1997

**RECEIVED**

**AUG 14 1997**

**BUREAU OF  
AIR REGULATION**

Mr. Cleve Holladay  
Florida Department of  
Environmental Protection  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Subject: Comment on Draft PSD Permit  
Sulfuric Acid Plants 10 & 11  
IMC-Agrico Company (South Pierce)  
Polk County, Florida  
PSD-FL-235

Dear Mr. Holladay:

We have reviewed the Best Available Control Technology (BACT) determination for the above referenced project and have the following comments:

1. Regarding sulfur dioxide control, we strongly urge FDEP to delete the following statement:

"It is possible to achieve lower values by more frequent catalyst screening and replacement.....However, such changes are probably feasible for new, refurbished or reconstructed plants."

The BACT determination does not provide any information to support this position. Furthermore, no useful purpose seems to be served by including this inapplicable general statement.

2. Regarding nitrogen oxides, it should be noted that the emission factor of 0.12 lb/ton of 100% H<sub>2</sub>SO<sub>4</sub> is based on past IMC-Agrico compliance test results submitted to FDEP. We are very concerned about FDEP's position on further evaluation of NO<sub>x</sub> controls.

"...If the actual value is substantially higher than estimated, an evaluation of further NO<sub>x</sub> control will be performed."

Given that FDEP is well aware of the typical range of uncontrolled NO<sub>x</sub> emissions from sulfuric acid plants in Florida (based on compliance results submitted to FDEP) and the fact that no add-on NO<sub>x</sub> control technology has been required/demonstrated on sulfuric acid plants, it is requested that the statement be deleted from the BACT determination.

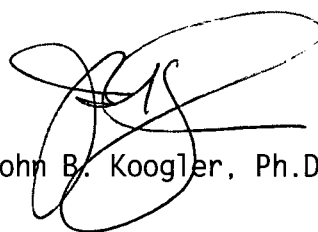
Mr. Cleve Holladay  
Florida Department of  
Environmental Protection

August 12, 1997  
Page 2

If you have any questions, please call Pradeep Raval or me.

Very truly yours,

KOOGLER & ASSOCIATES



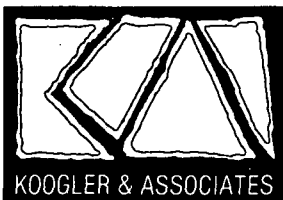
John B. Koogler, Ph.D., P.E.

JBK:par

c: C. Dave Turley, IMC-Agrico

cc: B. Thomas, SWD  
R. Harwood, Polk Co  
NPS  
EPA





**KOOGLER & ASSOCIATES**  
**ENVIRONMENTAL SERVICES**

4014 NW THIRTEENTH STREET  
GAINESVILLE, FLORIDA 32609  
352/377-5822 ■ FAX 377-7158

KA 124-96-03

July 29, 1997

Mr. Cleve Holladay  
Florida Department of  
Environmental Protection  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Subject: Comment on Draft PSD Permit  
Sulfuric Acid Plants 10 & 11  
IMC-Agrico Company (South Pierce)  
Polk County, Florida  
PSD-FL-235

Dear Mr. Holladay:

We have reviewed the above referenced draft permit and have only one comment.

It is requested that the nitrogen oxides test requirement for the sulfuric acid plants, contained in Specific Conditions B12 and C12, be changed from annual to a test to show initial compliance followed by testing every five years just prior to permit renewal. As you are aware, the nitrogen oxides emissions from the process are not controlled by the operator; and the emissions limitation is arbitrary. An initial test and a test prior to renewal would satisfy compliance demonstration requirements, and avoid unnecessary and unproductive annual testing.

Please note that this approach has been used previously in the permitting of sulfuric acid plants in Florida.

If you have any questions, please call Pradeep Raval or me.

Very truly yours,

KOOGLER & ASSOCIATES

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

JBK:par

c: C. Dave Turley, IMC-Agrico



**Certified Mail**  
**Return Receipt Requested**

July 29, 1997

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

**RE: Sulfuric Acid Plant Nos. 10 and 11**  
**DRAFT Permit No. 1050055-010-AC (PSD-FL-235)**  
**Permit Nos. AO53-221846 and AO53-220555**  
**AIRS ID No. 1050059**  
**Unit ID Nos. 004 and 005**  
**South Pierce Plant**

Dear Mr. Fancy:

Enclosed is the Affidavit of Publication of the Notice of Intent to Issue Permit published in the Lakeland Ledger on Friday, July 25, 1997 as required by the Department.

If there are any questions regarding this matter, please contact C. D. Turley at 941-428-7153.

Sincerely,

P. A. Steadham  
Chief Environmental  
Services - Concentrates

Enclosure  
xc: C. D. Turley

cwk  
pas97

CC: C. Holladay, BAR  
J. Koogler, K & A  
R. Harwood, Peck Co  
B. Thomas, SWD

EPA  
NPS

**RECEIVED**  
AUG 04 1997  
BUREAU OF  
AIR REGULATION

# AFFIDAVIT OF PUBLICATION

## THE LEDGER

### Lakeland, Polk County, Florida

Case No .....

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 .....

Draft Permit No.: 1050055-010-AC, (PSD-FL-235)

in the .....

Court, was published in said newspaper in the issues of .....

July 25;

1997

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.

Signed .....

*Nelson Kirkland*  
Nelson Kirkland  
Classified Advertising Manager  
By Nelson Kirkland who is  
personally known to me

25th

Sworn to and subscribed before me this .....

day of ..... July ..... A.D. 19 ..... 97

(Seal)

*Donald Ray Jenkins*  
Notary Public

My Commission Expires .....

Order#637908

L

A498

## PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
Draft Permit No.: 1050055-010-AC, (PSD-FL-235)  
South Pierce Facility  
Polk County

The Department of Environmental Protection (Department) gives notice of its intent to issue an air construction permit to IMC-Agrico for throughput increases for its molten sulfur storage and handling system and for production increases for their Sulfuric Acid Plants No. 10 and 11 located at the South Pierce Facility approximately eight miles west of Ft. Meade and twelve miles southwest of Bartow on State Road 630 in Polk County. A Best Available Control Technology (BACT) determination was required for sulfur dioxide (SO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>) and sulfuric acid mist (SAM) 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: IMC-Agrico Company, South Pierce Facility, 7450 Highway 630, Mulberry, Florida 33860.

The permit will allow IMC-Agrico to increase the sulfuric acid production rate of their two existing double absorption Sulfuric Acid Plants No. 10 and 11 from 2,700 to 3,000 tons per day (TPD) of 100 percent sulfuric acid, each. The change in the combined total production of 100 percent sulfuric acid by these plants will be from 5,400 to 6,000 TPD. The molten sulfur throughput rate will proportionately increase from 650,000 to 725,000 tons per year (TPY). Sulfur dioxide emissions from the sulfuric acid plants are controlled by use of the double absorption process coupled with periodic change-outs of the reaction catalyst. SAM emissions from sulfuric acid plants are controlled by a mist eliminator.

Total emissions of pollutants, including increases of pollutants subject to PSD review shall not exceed the following limits:

Pollutant	Maximum Emissions Tons Per Year (TPY)	Net Increase Tons Per Year (TPY)
SO <sub>2</sub>	439.9	119
SAM	164.2	135.8
NO <sub>x</sub>	131.4	79.8

An air quality impact analysis was conducted. Emissions from the facility will consume NO<sub>2</sub> and SO<sub>2</sub> PSD Class I and Class II increments in less than significant amounts for all averaging times, except for the PSD Class II SO<sub>2</sub> 24-hour averaging time. The maximum predicted 24-hour average PSD Class II SO<sub>2</sub> increment consumed by all sources in the area, including this project, will be as follows:

PSD Class II Increment Consumed (ug/m <sup>3</sup> )	Allowable Increment (ug/m <sup>3</sup> )	Percent Increment Consumed
24-hour 46	91	50

The project has no significant impact on the PSD Class I Chassahowitzka National Wilderness Area.

The Department will issue the FINAL Permit, in accordance with the conditions of the DRAFT Permit unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments and requests for public meetings concerning the proposed DRAFT Permit issuance action for a period of 30 (thirty) days from the date of publication of this Notice. Written comments and requests for public meetings should be provided to the Department's Bureau of Air Regulation, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the DRAFT Permit, the Department shall issue a Revised DRAFT Permit and require, if applicable, another Public Notice.

The Department will issue FINAL Permit with the conditions of the DRAFT Permit unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57 F.S. or a party requests a mediation or an alternative 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 does not result in a settlement. The procedures for petitioning for a hearing are set forth below, followed by the procedures for requesting mediation.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative hearing in accordance 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, Mail Station #35, Tallahassee, Florida 32399-3000, telephone: 850/488-9370, fax: 850/487-4938. 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 failure of any person to file a petition (or a request for mediation, as discussed below) within the appropriate time period shall constitute a waiver 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 it. Any subsequent intervention will be only at the discretion 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 action or proposed action; (d) A statement of the material facts disputed by petitioner, if any; (e) A statement of the facts that the petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement identifying the rules or statutes that the petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by the petitioner. The petitioner must state precisely that the petitioner wants the Department to take with respect to the Department's action or proposed action addressed in this notice of intent.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

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 filing 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, 3900 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 preliminary agency action; (c) A statement of the relief sought; and (d) Either an explanation of how 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.

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.

As provided in Section 120.573 F.S., the timely agreement of all parties to mediate will toll the 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 decision of the Department have a right to petition for a hearing only in accordance with the requirements for such petitions set forth above. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing proceeds 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 inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Protection Bureau of Air Regulation 111 S. Magnolia Drive, Suite 4 Tallahassee, Florida 32301 Telephone: 850/488-1344 Fax: 850/922-6979	Department of Environmental Protection Southwest District Office 3804 Coconut Palm Drive Tampa, Florida 33619 Telephone: 813/744-6100 Fax: 813/744-6456
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The complete project file includes the application, technical evaluation, Draft Permit, and the information submitted by the responsible official, exclusive of confidential records under Section 403.11, F.S. Interested persons may contact the Administrator, New Resource Review Section at 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301, or call 850/488-1344, for additional information.