



IMC

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JUN 10 2004

BUREAU OF AIR REGULATION

June 10, 2004

Ms. Trina Vielhauer
Chief, Bureau of Air Regulation
Bureau of Air Regulation
Florida Department of
Environmental Protection
2600 Blair Stone Road MS 5505
Tallahassee, Florida 32399-2400

**RE: Construction Permit Extension Request
Permit No. 1050059-024-AC (PSD-FL-244)
AIRS No. 1050059
Emissions Units Nos. 074, 075 and 076
New Wales Plant**

Dear Ms. Vielhauer:

Pursuant to discussion between our company representatives and your staff, today in Tallahassee, IMC requests an extension of the expiration date of the Multifos C Kiln Construction Permit No. 1050059-024-AC at New Wales. The extension would be from June 30, 2004 to August 31, 2004.

Thank you for your attention to this matter. If you have any questions, please contact P.A. Steadham at 863/428-7106.

Sincerely,

M. A. Daigle
Vice President, Florida Concentrates

cc: Doug Beason
Michael Cooke
G. J. Kissel, FDEP Tampa
John Reynolds



Certified Mail 7002 2030 0002 3546 4631
Return Receipt Requested

IMC Phosphates Company
P.O. Box 2000
Mulberry, Florida 33860-1100
863.428.2500

February 5, 2004

Mr. John Reynolds, P.E.
Florida Department of Environmental Protection
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

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FEB 09 2004

BUREAU OF AIR REGULATION

**Re: Proposed Compliance Test Protocol
Multifos Plant - Kiln C
No. 1050059-024-AC, PSD-FL-244
IMC Phosphates MP Inc. (New Wales)**

Dear Mr. Reynolds:

The following protocol is proposed for C Kiln testing as discussed with C. D. Turley, Dr. John Koogler and Pradeep Raval by phone on January 29, 2004. The testing will consist of an initial compliance test for particulate matter and fluoride emissions and additional particle sizing samples.

Compliance Test:

- Combined Methods 5 and 13b in the final stack.
- Although not required for regular compliance testing, a simultaneous Method 13B fluoride sample will be attempted in the quench tower inlet prior to introduction of process water into the system and downstream of the once-through water injection points. If necessary, the sample will be collected with an inverted nozzle to prevent overloading of the sample train due to the large quantities of water present in the gas stream. This will be a grab type sample.
- Another concurrent fluoride sample will be collected between the experimental venturi throats and the crossflow scrubber demist section. This will be a grab type sample.

Particle Sizing:

- Concurrently, particle size distribution tests of 30 minutes duration shall be conducted at the same sample points. The upstream samples will be collected directly in Greenberg-Smith impingers filled with water. The sample particle sizes and amounts will be reported according to fraction size range and will be determined using an appropriate

John Reynolds, P.E.
Florida Department of Environmental Protection
February 5, 2004
Page 2

method such as a Coulter Counter. These results will be the insoluble material in the gas stream. Dr. Koogler has confirmed that it is not feasible to attempt sizing of materials collected on a filter.

- The upstream particle size sample locations are at the inlet to the quench tower and in the transition between the crossflow scrubber demist section and the venturi location.
- An Andersen impactor capable of capturing at least eight size fractions will be used to determine the particle size distribution in the final stack.

The sampling will begin on March 10, 2004 and continue into the next day if necessary. The sampling will begin with the compliance test and fluoride sampling. The particle size sampling will follow this as quickly as possible.

Thank you for your attention and assistance in this matter. Please feel free to contact me if you have any questions or need additional information, or contact C. D. Turley at 863.428.7153.

Sincerely,



P. A. Steadham
Environmental Manager
Florida Concentrates

PAS:jp\multi0104b

cc: Dr. John Koogler, Koogler & Associates
M. A. Daigle, IMC
J. R. Gruber, IMC
W. E. Schroeder, FDEP-Tampa



Jeb Bush
Governor

Department of Environmental Protection

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

January 15, 2004

David B. Struhs
Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. M. A. Daigle
Vice President, Florida Concentrates
IMC Phosphates Company
P.O. Box 2000
Mulberry, Florida 33860-1100

Re: DEP File No. 1050059-033-AC (PSD-FL-244) – Multifos Kiln C

Dear Mr. Daigle:

Since the equivalent of the BACT control equipment originally anticipated now exists through recent improvements, the Department will extend the above permit so that a Revised BACT Determination can be issued establishing achievable fluoride emission limits for Kiln C. A Revised BACT is appropriate because neither IMC nor the Department anticipated the difficulty in controlling fluoride emissions from this kiln. This is preferable to the alternate strategy of issuing a separate minor source permit for Kiln C since extensive monitoring would be necessary to ensure that fluoride emissions do not exceed the PSD threshold of 3 tons per year. To accomplish the revision, IMC has indicated its intention to conduct an additional test on Kiln C within the next few weeks and to provide, on an informal basis, any additional and reasonable information the Department needs in order to issue a Revised BACT Determination/PSD Construction Permit by June 30. Accordingly, the expiration date of the permit is hereby extended through **June 30, 2004**.

In the event the applicability of MACT has not been finalized through the Title V permit by June 30, 2004, the PSD modification will include the following language:

“The New Wales Operations Facility is also classified as a “Major Source” per 40 CFR 63.2, Definitions [adopted and incorporated by reference by the Department at Paragraph 62-204.800(11)(d)] because it consists of a group of stationary sources located within a contiguous area and under common control that emit or have the potential to emit considering controls, in the aggregate, 10 tons per year or more of any hazardous air pollutant or 25 tons per year or more of any combination of hazardous air pollutants. If additional testing and modeling demonstrate that the facility is not and has never been a major source of hazardous air pollutants since at least June 10, 2002, the permittee shall have the right to request that the Department revise the permit to remove those requirements and conditions that are applicable because the facility is a major source of hazardous air pollutants as determined by the Department.”

A copy of this letter shall be part of the permitting record. This permitting action is issued pursuant to Chapter 403, Florida Statutes.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be

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Mr. M. A. Daigle

January 9, 2004

Page Two

filed within fourteen days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes 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. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall 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 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 approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301.

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. 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. Mediation is not available in this proceeding.

In addition to the above, a person subject to regulation has a right to apply for a variance from or waiver of the requirements of particular rules, on certain conditions, under Section 120.542 F.S. The relief provided by this state statute applies only to state rules, not statutes, and not to any federal regulatory requirements. Applying for a variance or waiver does not substitute or extend the time for filing a petition for an administrative hearing or exercising any other right that a person may have in relation to the action proposed in this notice of intent.

The application for a variance or waiver is made by filing a petition with the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. The petition must specify the following information: (a) The name, address, and telephone number of the petitioner; (b) The name, address, and telephone number of the attorney or qualified representative of the petitioner, if any; (c) Each rule or portion of a rule from which a variance or waiver is requested; (d) The citation to the statute underlying (implemented by) the rule identified in (c) above; (e) The type of action requested; (f) The specific facts that would justify a variance or waiver for the petitioner; (g) The reason why the variance or waiver would serve the purposes of the underlying statute (implemented by the rule); and (h) A statement whether the variance or waiver is permanent or temporary and, if temporary, a statement of the dates showing the duration of the variance or waiver requested.

The Department will grant a variance or waiver when the petition demonstrates both that the application of the rule would create a substantial hardship or violate principles of fairness, as each of those terms is defined in Section 120.542(2) F.S., and that the purpose of the underlying statute will be or has been achieved by other means by the petitioner.

Persons subject to regulation pursuant to any federally delegated or approved air program should be aware that Florida is specifically not authorized to issue variances or waivers from any requirements of any such federally delegated or approved program. The requirements of the program remain fully enforceable by the Administrator of the EPA and by any person under the Clean Air Act unless and until the Administrator separately approves any variance or waiver in accordance with the procedures of the federal program.

This permitting decision is final and effective on the date filed with the clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition pursuant to Rule 62-110.106, F.A.C., and the petition conforms to the content requirements of Rules 28-106.201 and 28-106.301, F.A.C. Upon timely filing of a petition or a request for extension of time, this order will not be effective until further order of the Department.

Any party to this permitting decision (order) has the right to seek judicial review of it under section 120.68 of the Florida Statutes, by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.



Trina L. Vielhauer, Chief
Bureau of Air Regulation

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this PERMIT EXTENSION was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 1/15/04 to the person(s) listed:

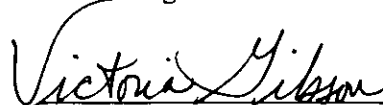
Mr. M. A. Daigle, IMC*
Dr. John B. Koogler, K&A
Mr. C. David Turley, IMC

Mr. Gerry Kissel, DEP-SWD
Mr. Greg Worley, EPA
Mr. John Bunyak, NPS

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED,

on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.


(Clerk)

1/15/2004
(Date)

RECEIVED

JAN 12 2004



Certified Mail 7002 0460 0002 8878 7421
Return Receipt Requested

BUREAU OF AIR REGULATION

IMC Phosphates Company
P.O. Box 2000
Mulberry, Florida 33860-1100
863.428.2500

January 7, 2004

Mr. Jim Pennington, P.E.
Florida Department of Environmental Protection
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

**Re: Construction Permit Application
Multifos Plant - Kiln C
No. 1050059-024-AC, PSD-FL-244
IMC Phosphates MP Inc. (New Wales)**

Dear Mr. Pennington:

The following information is submitted based on the correspondence from Mr. A. A. Linero received by Phil Steadham on October 24, 2003.

- Please provide updated information on NOx emissions. Although the original permit did acknowledge NOx emissions marginally greater than 40 tons per year, a final BACT value has not been determined because the kiln has not been tested at relatively high production rates. The new application still anticipates operating at a higher rate than the recent historical operation of Kiln C. The possibility of substantial NOx formation (thermal NOx) exists based on the temperatures required to defluorinate the raw materials. The alternative given in the October 16 letter to limit fuel usage would make sense for controlling fuel-related NOx but not thermal NOx.**

The NOx emissions for C Kiln are as follows:

Test Date	Mixed Feed TPH	Natural Gas mmBtu/hr	scfm	NOx lb/hr
07/11/00	4.1	31.2	14579	6.3
09/19/02	8.9	41.8	11520	8.2
11/14/03	11.0	44.2	11776	5.8
			Average:	6.7

The preliminary testing that was done on A and B Kilns during the permit review period showed the following emissions. The measurement was made in the single stack serving both kilns and the plant equipment scrubber.

Test Date	Mixed Feed TPH	Natural Gas mmBtu/hr	scfm	NOx lb/hr
10/20/98	23.0	96.0	48617	28.6
11/10/98	23.0	96.0	45203	27.4
01/12/99	22.0	98.4	52070	30.6
Average per kiln	11.3	48.4	***	14.4

2. Please describe the features incorporated into the kiln design that control NOx.

The defluorination process requires the addition of steam to the kiln. This steam may act to quench NOx formation.

3. Please provide a rough overall material balance regarding the fluorides that enter the process and their fate. This would include the fluorides in the raw materials entering the Multifos process, incoming and outgoing scrubber water, etc. Estimate percent removal by the control equipment.

Based on a testing series conducted from 10/14 to 10/23 after the installation of the current venturi configuration, a mass balance based analysis was used to estimate the scrubber system efficiencies.

C Kiln estimated scrubber efficiencies:

- 10.7 Avg Feed TPH
- 6.0% Feed moisture
- 3% Rock F (approximately 70% of the feed)
- 0.08% Product F
- 411 lb/hr F from kiln to scrubbers
- Estimated lb/hr F from crossflow scrubber (0.9 lb/hr, 5 year average for
- 1 A+B/2)
- 99.8% apparent efficiency
- 0.27 lb/hr F average stack emission for period
- 73% apparent efficiency for OSO scrubber

**4. Calculation of subsequent annual Fluoride emissions since previous submittal.
(This item was added based on your subsequent phone conversation with Phil Steadham.)**

This extends the table submitted 01/15/03 to Syed Arif:

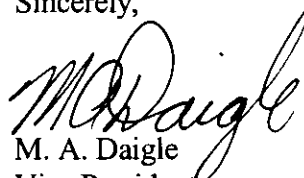
01/09/03	hours	lb/hr	tons	
07/03/03	4053	0.65	1.31	Test runs (6) to review de minimus
08/22/03	778	0.41	0.16	Initial venturi test runs (9)
10/23/03	1106	0.29	0.16	Final venturi configuration test runs (27)

**5. Descriptions of the burners installed and any low NOx properties.
(Regarding the November 14 inspection by Bob Soich.)**

The current C Kiln burner configuration is the same as that used in Kilns A and B. Originally, the kiln burners were for oil. Pillard design burners were then installed after 1980 to accommodate both oil and gas. The C Kiln burner was changed to this design because of flame configuration problems with the one purchased for C Kiln. The present burner would not be considered to have any "low NOx" properties due to design.

Thank you for your attention and assistance in this matter. Please feel free to contact me if you have any questions or need additional information, or contact C. D. Turley at 863.428.7153 or P. A. Steadham at 863.428.7106.

Sincerely,


M. A. Daigle
Vice President
Florida Concentrates

MAD:jp\multi120203
attachment

J. Pennington, P.E.
Florida Department of Environmental Protection
January 7, 2004
Page 4

cc : P. A. Steadham, IMC
J. R. Gruber, IMC
P. Raval, Koogler & Associates
A. A. Linero, FDEP-Tallahassee
J. Reynolds, FDEP-Tallahassee
G. Kissel, FDEP-Tampa
J. Wolny, EPA

CERTIFICATION BY RESPONSIBLE OFFICIAL

Based on information and belief formed after reasonable inquiry, I certify that all statements made in this report, including any attachments, are true, accurate and complete.

M. A. Daigle
(Signature of Responsible Official)

1/8/04
(Date)

Name: M. A. Daigle

Title: Vice President, Florida Concentrates

Certification by Professional Engineer

Based on my review of the above information submitted, I certify, to the best of my knowledge, that there is reasonable assurance the air pollutant emission unit and the air pollution control equipment described herein, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in Florida statutes and rules of the Department. Furthermore, I certify that, to the best of my knowledge, the emission estimates and cost estimates reported or relied upon in these documents are true, accurate and complete and are based on reasonable techniques available for calculating emissions.

Charles David Turley

C. D. Turley, P.E.
No. 0023344

1/8/04
(Date)

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Received by (Please Print Clearly) <u>Joe Howard</u> B. Date of Delivery <u>1-17-04</u></p> <p>C. Signature <u>Joe Howard</u> <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p>Mr. M. A. Daigle Vice President, Florida Concentrates IMC Phosphates Company Post Office Box 2000 Mulberry, FL 33860-1100</p>	<p>3. Service Type</p> <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.
<p>2. Article Number (Copy from service label)</p> <p><u>7000 2870 0000 7028 3789</u></p>	<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>

PS Form 3811, July 1999

Domestic Return Receipt

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Mr. M. A. Daigle

Street, Apt. No.; or PO Box No.
PO Box 2000

City, State, ZIP+4
Mulberry, FL 33860-1100

PS Form 3800, May 2000 See Reverse for Instructions