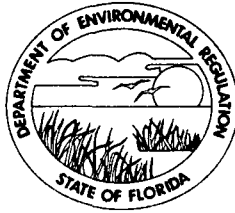


EXTRA

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT

Mr. J. A. Brafford
Vice-President and General Manager
International Minerals and Chemical Corp.
New Wales Operations
Post Office Box 1035
Mulberry, Florida 33860

June 6, 1985

Enclosed is Permit Number AC 53-099108 to International Minerals and Chemical Corporation, New Wales Operations to increase production at their existing No. 3 phosphoric acid plant, issued pursuant to Section 403, Florida Statutes.

Any Party to this permit has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32301; 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 of Appeal must be filed within 30 days from the date this permit is filed with the clerk of the Department.

Sincerely,

C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management

Enclosure

cc: Craig A. Pflaum, P.E.
Bill Thomas

CERTIFICATION

This is to certify that the foregoing Notice of Permit and all copies requested were mailed before the close of business on June 11, 1985.

William Hanks for
C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management
2600 Blair Stone Road
Tallahassee, Florida 32301

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to
§120.52(9), Florida Statutes, with
the designated Department Clerk,
receipt of which is hereby
acknowledged.

R. Bruce Mitchell
Clerk

6/11/85
Date

Final Determination

International Minerals & Chemical Corporation
New Wales Operations
Polk County

No. 3 Phosphoric Acid Plant
Permit Number
AC 53-099108

Florida Department of Environmental Regulation
Bureau of Air Quality Management
Central Air Permitting

June 4, 1985

Final Determination

International Minerals and Chemical Corporation's application for permit to increase the production at their existing No. 3 phosphoric acid plant in Polk County has been reviewed by the Bureau of Air Quality Management. Public Notice of the department's Intent to Issue the construction permit was published in the Lakeland Ledger on April 4, 1985. Copies of the Technical Evaluation and Preliminary Determination were available for public inspection at the department's offices in Tampa and Tallahassee.

In response to the public notice, Joyce C. Hunter submitted a petition signed by residents of Lithia, Florida (a community near IMCC's New Wales Operation), which raised the following issues.

1. The air pollution from the New Wales Operations and the residue it deposits in the area.
2. The deterioration of the air quality in the area near the plant.
3. The increased fluoride emissions from the No. 3 phosphoric acid plant that the proposed construction permit will authorize.
4. Well water usage by the plant.
5. The adverse effect on the desirability and value of property caused by the New Wales Operations.
6. The close proximity of the plant to a habitation area.

The bureau's response to each issue in the petition follows:

1. Data available to the department shows the plant is in compliance with the air pollution control regulations, although the GTSP storage building is operating under a variance. Because of the economic slow down affecting the phosphate fertilizer industry, these plants have, in general, been operating at lower production rates and, as a result, emitting less air pollutants than they are permitted to do.
2. All ambient air quality standards are being met in the vicinity of this plant. Department data has shown a slight improvement in the ambient air quality throughout the state, including Polk and Hillsborough counties. This is probably due to the lower production of the phosphates plants and increased rainfall in the state during the past several years. Although short term, local air pollution episodes are possible around this plant, or any other major source of air pollution, we do not have data to confirm that this has

occurred. The state does not have an ambient air standard for fluorides. Two published values for fluoride are air concentrations of 2,500 ug/m³ for the time weighted average (TWA) threshold limit value (TLV) and 45 ppm in pasture grass. The department does not have any recent measurements of the fluoride concentrations in the ambient air. However, the fluoride concentration in the pasture grass around the New Wales Operations were relatively low in 1984, between 20 and 30 ppm. Although there is no known correlation between ambient air concentration and pasture grass content of fluorides, these results indicate the ambient air concentration is at an acceptable level.

3. The department is requiring the No. 3 phosphoric acid plant to comply with all existing state and federal air pollution control regulations, including new source performance standards for phosphoric acid plants. The higher production rate of IMCC's No. 3 phosphoric acid plant will result in approximately a two percent increase in permitted fluoride emissions from the plant. Conservative modeling estimates that this will result in an increase of 2 ug/m³ in the 24-hour fluoride ambient air concentration. This minor increase in fluoride concentration will not create an adverse health effect.
4. The Southwest Florida Water Management District, not the department, has legal jurisdiction on well water usage. Phosphoric acid plants primarily use recycled process water in their operations. IMCC's New Wales Operations is permitted to use 20.7 million GPD of well water which they obtain from wells that are 770 and 880 feet deep. The plant's average consumption of well water in April, 1985, was 13.9 million GPD, 69 percent of their allowable usage. The increased production of the No. 3 phosphoric acid plant could increase the well water consumption indirectly by 200 GPM or 1.4 percent of the facility's permitted well water consumption. To exceed the current permitted rate would require review and a permit revision by the Southwest Florida Water Management District.
5. The petitioner's complaint about the plant depressing the desirability and value of the property in the area raises matters that are beyond the jurisdiction of the department. The department does not have rules to prevent heavy industry and mining operations in residential areas. We will continue to insure that the plant meets all state and federal air pollution control regulations.
6. Heavy industry or strip mining in the immediate vicinity of residential areas may be considered as incompatible land uses. Planning and zoning are needed to provide transition areas between different land users. The local governments are in

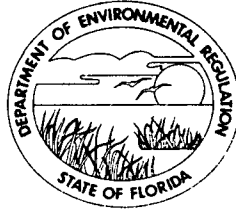
the best position to determine how their areas should be developed.

The construction permit, as originally proposed, will require IMCC's No. 3 phosphoric acid plant to comply with all state and federal air pollution control regulations. In a meeting between the District and the residents near this plant, odors from the plant were mentioned. Because of the resident's concern about odors, a new Specific Condition has been added to the construction permit that will prohibit this source from emitting air pollutants that contribute to objectionable odors.

The final action of the department will be to issue the construction permit as originally proposed except for the new Specific Condition on odors mentioned above.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
International Minerals &
Chemical Corporation
New Wales Operations
P. O. Box 1035
Mulberry, FL 33860

Permit Number: AC 53-099108
Expiration Date: October 30, 1985
County: Polk
Latitude/Longitude: 27° 50' 13"N
82° 02' 56"W/
Project: No. 3 Phosphoric Acid
Plant Modification

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawings, plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

Authorization to increase production at the existing No. 3 phosphoric acid plant whose emissions are controlled by a Davy designed crossflow scrubber with cyclonic entrainment separator that uses cooling pond water to remove fluorides. Production will increase from 1,500 to 2,000 TPD P₂O₅ (2,151 TPD P₂O₅ input). No physical modifications are required for the plant to achieve the higher production rates.

The plant is located in western Polk County at the intersection of Highway 640 and County Line Road. The UTM coordinates of this site are 17,396.7 km East and 3079.4 km North.

This construction permit replaces permit No. AO 53-92685.

The modification shall be in accordance with the application for a permit to construct the Third Phosphoric Plant with Crossflow Scrubber that was signed by Mr. J. A. Brafford on February 1, 1985, and the information supplied by Mr. A. L. Girardin in a letter dated February 22, 1985.

Attachments:

1. Application
2. DER 2/15/85 letter
3. IMCC 2/22/85 letter
4. Letter from Joyce C. Hunter, with attachments, dated 5/2/85

PERMITTEE:
International Minerals &
Chemical Corporation

Permit Number: AC 53-099108
Expiration Date: October 30, 1985

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

PERMITTEE:
International Minerals &
Chemical Corporation

Permit Number: AC 53-099108
Expiration Date: October 30, 1985

GENERAL CONDITIONS:

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:
International Minerals &
Chemical Corporation

Permit Number: AC 53-099108
Expiration Date: October 30, 1985

GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or department rules.

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

- () Determination of Best Available Control Technology (BACT)
- () Determination of Prevention of Significant Deterioration (PSD)
- (x) Compliance with New Source Performance Standards.

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
International Minerals &
Chemical Corporation

Permit Number: AC 53-099108
Expiration Date: October 30, 1985

GENERAL CONDITIONS:

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

15. When requested by the department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.

SPECIFIC CONDITIONS:

1. The No. 3 phosphoric acid plant shall comply with all requirements of 40 CFR 60, Subpart T-Standards of Performance for the Phosphate Fertilizer Industry: Wet-Process Phosphoric Acid Plants.
2. Phosphorus bearing feed material to the modified plant shall not exceed 2,151 ton per day P_2O_5 input (2,000 TPD P_2O_5 product) and 92 TPH P_2O_5 production. Raw material input shall be monitored as required by 40 CFR 60.203. All records shall be kept for a minimum of 2 years.

PERMITTEE:
International Minerals &
Chemical Corporation

Permit Number: AC 53-099108
Expiration Date: October 30, 1985

SPECIFIC CONDITIONS:

3. Total fluoride emissions from the No. 3 phosphoric acid plant shall not exceed 0.019 lb F/T P₂O₅ input and 41 lb/day. Compliance with this condition shall be determined by the test methods and procedures specified in 40 CFR 60.204 while the plant is operating at the permitted capacity of 2,151 TPD P₂O₅ input (+ 10%). Scrubber water pressure, scrubber water flow, and gas pressure drop shall be monitored during any compliance test and a summary of this data included in any emissions test report. The Southwest District shall be notified at least 15 days in advance of any compliance test.
4. The plant may operate continuously, 8,760 hours per year.
5. The Company shall submit a complete application for permit to operate the No. 3 phosphoric acid plant, which will include an emission test report on the plant, to the Southwest District office at least 90 days prior to the expiration date of this construction permit or 45 days after reaching the permitted production capacity, whichever date occurs first. If the compliance tests are conducted at an operating rate of less than 90 percent of the permitted capacity, then any permit to operate issued for the plant shall restrict its maximum production to not more than 10 percent above the production rate that existed during the compliance test.
6. Upon obtaining a permit to operate, the Company will be required to make periodic compliance tests and to submit annual operation reports to the Southwest District which shall include as a minimum: The amount of material processed during the preceding year, a recent fluoride emissions test report, the annual emissions (note calculation basis), and any changes to the plant described in the information contained in the permit application.
7. The No. 3 phosphoric acid plant shall not discharge air pollutants which cause or contribute to an objectionable odor.

PERMITTEE:
International Minerals &
Chemical Corporation

Permit Number: AC 53-099108
Expiration Date: October 30, 1985

SPECIFIC CONDITIONS:

Issued this 4th day of June, 1985

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

DER

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

JUN 4 1985

INTEROFFICE MEMORANDUM **BAQM**

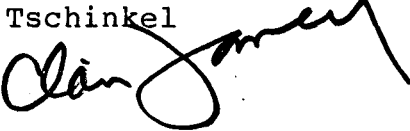
For Routing To District Offices And/Or To Other Than The Addressee		
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
From: _____	Date: _____	
Reply Optional []	Reply Required []	Info. Only []
Date Due: _____	Date Due: _____	

RECEIVED

JUN 4 1985

Office of the Secretary

TO: Victoria J. Tschinkel

FROM: Clair Fancy 

DATE: June 4, 1985

SUBJ: Issuance of a Permit to Construct

Attached is the Final Determination and Permit to Construct the No. 3 Phosphoric Acid Plant at IMCC's New Wales Operations in Polk County, Florida.

Public Notice of the department's Intent to Issue was published in the Lakeland Ledger on April 4, 1985. Joyce C. Hunter submitted a petition, in response to the public notice, requesting relief from the environmental impact of the plant. The information we have shows this source is in compliance with all state and federal regulations.

The bureau recommends the permit to construct be approved. Day 90, after which the permit would be issued by default, is June 18, 1985.

WH/ks

attachment