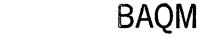
IMC FERTILIZER GROUP . MINERALS DIVISION P.O. Box 867 • Bartow, Florida 33830 Telephone: (813) 533-1121

DER 2078 AC 29-141149-Dryn 1 DER 2078 OCT 26 1987



INTERNATIONAL MINERALS & CHEMICAL CORPORATION

October 23, 1987

Mr. William A. Thomas, P.E. Environmental Administrator Bureau of Air Quality Management Department of Environmental Regulation Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32301

Dear Mr. Thomas:

### RE: Lonesome Dryer PSD Permit Application Amendment

As you instructed, we are submitting a permit application, copies and fee in order to initiate the review process of the original PSD construction permit application for the fuel conversion of the two Lonesome Dryers. The aim of this review is to either correct, clarify, or simplify various aspects of the conditions of the original construction permits and the current operating permits. As we understand the situation, these issues must be addressed in the original construction permit application prior to addressing the operating permit conditions.

Much of the related information is referenced to either the original documents or recent submittals since IMC operation of these units. If you need any of this information, please contact me. We will appreciate any advice or assistance that you can give us in this review.

Thank you for your attention in this matter.

DER

OCT 27 1987

Attachments

Very truly yours,

Webuss

W. C. Cross

Vice President & General Manager Florida Minerals Operations



I.M.C. P.O. Box 867 Bartow, FL. 3383©





# IMC FERTILIZER, INC. INTERNATIONAL MINERALS & CHEMICAL CORPORATION

P.O. BOX 867 . BARTOW, FLORIDA 33830 C. D. TURLEY

TO:

MR. WILLIAM A. THOMAS, P.E. ENVIRON. ADMIN. - BUR. OF AIR QUAL. MGMT. DEPT. OF ENVIRON. REG. TWIN TOWERS OFFICE BLDG. 2600 BLAIR STONE ROAD TALLAHASSEE, FL 32301

FORM 5-422 PRINTED IN U.S.A.

### STATE OF FLUHIDA

### DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32399-2400

DER Form 17-1.202(1) Effective October 31, 1982



## DER

OCT 27 1987

BOB MARTINEZ GOVERNOR DALE TWACHTMANN SECRETARY

APPLICATION TO OPERATE/CONSTRUCT APPROLLUTION SO

	MILLICATION I	O OFERRIE/OOM	DIMOOT HIM IO	<u></u>	,0200	
SOURCE TYPE:	PSD		_ [] New <sup>1</sup>	[X] Existi	.ng <sup>1</sup>	1. 
APPLICATION TYPE:	[ ] Construc	tion [] Ope	ration [] M	odificatio	n Correction	1
COMPANY NAME:	IMC Fertilize	r, Inc.		с	OUNTY: Killst	porough
Identify the speci	fic emission	point source(	s) addressed	in this ap	plication (i	.e. Lime
Kiln No. 4 with Ve Lonesome No.	1 and No. 2 Dr	yer Scrubbers	5		9.1	
SOURCE LOCATION:						
	UIM: East_(	17) 389.6 km		North	3067.9 km	
	Latitude	o	"N	Longi tude	· · · · · · · · · · · · · · · · · · ·	
APPLICANT NAME AND	TITLE: W. C.	Cross - Vice	Pres. & Gen.	Mgr F1	a. Mins. Opns	
APPLICANT ADDRESS:						
A. APPLICANT  I am the under  I certify that permit are tru I agree to ma facilities in Statutes, and also understan and I will proestablishment.	signed owner of the statement e, correct and intain and or such a manner all the rules d that a perm mptly notify t	or authorized in the complete to be as to compand and regulation it, if grants the departments	is application the best of to control of the post of the dependent of the dependent of the dependent upon sale of the dependent of the depende	ve* of IMO  n for a cor  my knowled;  rol source  provision of  partment ar  partment, we legal tr	C Fertilizer,  nstruction/ope ge and belier e and pollut of Chapter 4 nd revisions will be non-t ransfer of th	eration  Further, ion control 03, Florida thereof. I
	<b>→</b> `			Vice Pres. Fla. Mins. Title (Ple	& Gen. Mgr. Opns. ease Type)	
B. PROFESSIONAL E	NGINEER REGIST			<del>-</del>		·
This is to cer been designed/principles app permit applica	examined by m licable to the	e and found treatment a	to be in co nd disposal o	nformity w f nollutan	with modern	engineering
l See Florida Admir	nistrative.Cod	e Rule 17-2.1	.00(57) and (1	104)		

Page 1 of 12

furnish, if authorized by maintenance and operation pollution sources.	of the pollution	control facilities	and, if applicable,
	Signed	harles wavid	Turley
WHITE ASSESSED		arles David Turley	1
Charles of the state of the sta		Name (Plea	ве Туре)
	IMO	C Fertilizer, Inc.	
		Company Name (	• •
	P.	0. Box 867 - Bartow,	
West of the		-	(Please Type)
ide Registration No. 23	344 Date: 10/2	23/8/ Telephon	No. (813). 533-1121
SECT	IDN II: GENERAL	PROJECT INFORMATION	
Describe the nature and e and expected improvements whether the project will necessary.	in source perfor	mance as a result of	installation. State
This application will co	orrect and amend	the original fuel con	version PSD applications
for the Lonesome Dryers.	It corrects or	lginally estimated ex	isting emissions. It
•			
changes the maximum oper	ating condition s	specification consist	ent with representative
operation. See Attachme		specification consist	ent with representative
operation. See Attachme	ent A.		
operation. See Attachme	ent A.	ation (Construction F	ermit Application Only)
operation. See Attachme	ent A.	ation (Construction F	ermit Application Only)
operation. See Attachme	ent A.  ed in this applic  N/A  i system(s): (No  'units of the pro	ation (Construction F Completion of Constru te: Show breakdown o ject serving pollutio	ermit Application Only) oction of estimated costs only on control purposes.
operation. See Attachme  Schedule of project covere  Start of Construction  Costs of pollution control for individual components, Information on actual cost	ent A.  ed in this applic  N/A  i system(s): (No  'units of the pro	ation (Construction F Completion of Constru te: Show breakdown o ject serving pollutio	ermit Application Only) oction of estimated costs only on control purposes.
operation. See Attachme Schedule of project covere Start of Construction Costs of pollution control for individual components, Information on actual cost permit.)	ent A.  ed in this applic  N/A  i system(s): (No  'units of the pro	ation (Construction F Completion of Constru te: Show breakdown o ject serving pollutio	ermit Application Only) oction of estimated costs only on control purposes.
operation. See Attachme Schedule of project covere Start of Construction Costs of pollution control for individual components, Information on actual cost permit.)	ent A.  ed in this applic  N/A  i system(s): (No  'units of the pro	ation (Construction F Completion of Constru te: Show breakdown o ject serving pollutio	ermit Application Only) oction of estimated costs only on control purposes.
operation. See Attachme Schedule of project covere Start of Construction Costs of pollution control for individual components, Information on actual cost permit.)	ent A.  ed in this applic  N/A  i system(s): (No  'units of the pro	ation (Construction F Completion of Constru te: Show breakdown o ject serving pollutio	ermit Application Only) oction of estimated costs only on control purposes.
operation. See Attachme Schedule of project covere Start of Construction Costs of pollution control for individual components, Information on actual cost permit.)	ent A.  ed in this applic  N/A  i system(s): (No  'units of the pro	ation (Construction F Completion of Constru te: Show breakdown o ject serving pollutio	ermit Application Only) oction of estimated costs only on control purposes.
operation. See Attachme Schedule of project covere Start of Construction Costs of pollution control for individual components, Information on actual cost permit.)	ent A.  ad in this applic  N/A  i system(s): (No  funits of the pro  s shall be furni  permits, orders	ation (Construction F Completion of Constru te: Show breakdown of ject serving pollution shed with the applica	ermit Application Only) oction of estimated costs only on control purposes. tion for operation
operation. See Attachme  Schedule of project covered  Start of Construction  Costs of pollution control for individual components, Information on actual cost permit.)  N/A  Indicate any previous DER point, including permit is	ent A.  ad in this applic  N/A  i system(s): (No  funits of the pro  s shall be furni  permits, orders	ation (Construction F Completion of Constru te: Show breakdown of ject serving pollution shed with the applica	ermit Application Only) oction of estimated costs only on control purposes. tion for operation
operation. See Attachme  Schedule of project covered  Start of Construction  Costs of pollution control for individual components, Information on actual cost permit.)  N/A  Indicate any previous DER point, including permit is	ent A.  ad in this applic  N/A  Laystem(s): (No  funits of the pro  s shall be furni  permits, orders  suance and expire  d A029-111119	ation (Construction F Completion of Construct te: Show breakdown of ject serving pollution shed with the application	d with the emission

The original specification of 7000 hrs/yr for each dryer is not changed.	•
,	
f this is a new source or major modification, answer the following questyes or No) $\{$	tions.
. Is this source in a non-attainment area for a particular pollutant?	No
a. If yes, has "offset" been applied?	No
b. If yes, has "Lowest Achievable Emission Rate" been applied?	No
c. If yes, list non-attainment pollutants.	N/A
. Does best available control technology (BACT) apply to this source? If yes, see Section VI.	Yes
. Does the State "Prevention of Significant Deterioriation" (PSD) requirement apply to this source? If yes, see Sections VI and VII.	Yes
. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source?	Yes <sup>*</sup>
. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source?	No
o "Reasonably Available Control Technology" (RACT) requirements apply o this source?	No
a. If yes, for what pollutants?	

\*Refer to "Final Determination," 5/25/82.

### SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

A. Raw Materials and Chemicals Used in your Process, if applicable:

	Conta	minants	Utilization	
Description	Type	ä Wt	Rate - lbs/hr	Relate to Flow Diagram
Phosphate Rock	Dust	Varies	Unknown*	1-1, See original appl.
Phosphate Rock	Dust	Varies	Unknown*	2-1. See ori∘inal appl.
			,	
				,

\*See "PSD Permit Application Review " 9/30/87.

a	Procees	Rote	i f	applicable:	(500	Section V	Item	1 )	١
σ.	rrocess	RBLE.	11	applicable:	Jee	SECTION A	. 1680	/	ř

_	Product Weight (hhadha).	0.2.2%
1.	Total Process Input Rate	(MoseXMxxx): 0 10-14% moisture

C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

Name of Contaminant	Emission		Allowed <sup>2</sup> Emission Rate per	Allowable <sup>3</sup> Emission	Potent Emiss	Relate to Flow	
	Maximum lbs/hr	Actual T/yr	Rule 17-2	lbs/hr	lbs/yr	T/yr	Diagram
Particulate	*	1					
S02							
NOx		·					
СО		,					
VOC							

<sup>&</sup>lt;sup>1</sup>See Section V, Item 2. \*See amended Tables I and II in "PSD Permit Application Review," 9/30/87.

<sup>&</sup>lt;sup>2</sup>Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million BTU heat input)

<sup>3</sup>Calculated from operating rate and applicable standard.

<sup>&</sup>lt;sup>4</sup>Emission, if source operated without control (See Section V, Item 3).

D. Control Devices: (See Section V, Item 4)

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Entoleter Centrifield	Particulate	95.6%	Unknown	Test*
Model 1200/1700				
Entoleter Centrifield	Particulate	99.0%	Unknown	Test*
Model 1200/1700		\ 		

\*As specified in original permit application.

	Consump	tion*	
Type (Be Specific)	avg/hr	max./hr	Maximum Heat Input (MMBTU/hr)
No. 6 Fuel Oil			*
COM			
Coal			

\*Units: Natural Gas--MMCF/hr; fuel Oils--gallons/hr; Coal, wood, refuse, other--lbs/hr. \*See "PSD Permit Application Review," 9/30/87.

Fuel Analysis:  *See recent test reports, 4/03/ Percent Sulfur:	87 and 6/09	and 6/10/87. Percent Ash:	
Density:	lbs/gal	Typical Percent Nitrogen:	
Heat Capacity:	BTU/1b		BTU/gal
Other Fuel Contaminants (which may	cause air p	ollution):	
F. If applicable, indicate the perc	cent of fue	l used for space heating.	
N/A	М-	vimum.	

G. Indicate liquid or solid wastes generated and method of disposal.

Collected material discharged to a settling area.

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D - +1								ft.
			·					
Water Vaco	r Content:	25-32		~ %	Velocity:		50- 60	FP
		SECT	ION IV:	INCINERA	TOR INFORMAT	ION		,
Type of Waste	Type 0 (Plastics)				e) (Patholog	- (Liq.& Gas	(Solid By-p	
Actual lb/hr Inciner- ated		,					-	
Uncon- trolled (lbs/hr)								
	o of Worte	27			<del></del>	<del></del>	<u>!</u>	
·					Design Ca	nacity (lbs/	'h r )	
_								
				per. day	uay		#K3/ y1 ·	
lb/hr Inciner- ated  Uncon- trolled (lbs/hr)								
ate Const			<del></del>		. NO.	<del></del>		<del></del>
								е
Daimany C	hambar							
			<del> </del>					
	### Both stacks: ### Both stacks: ### Both stacks: ### Height: 125							
If 50 ar i								
tack Height: 125 ft. Stack Diameter: 8 ft.  clas Flow Rate: 130-155,000 ACFH84-98,000 DSCFM Gas Exit Temperature: 150-160 °F.  clas Flow Rate: 130-155,000 ACFH84-98,000 DSCFM Gas Exit Temperature: 150-160 °F.  (ater Vapor Content: 25-32 % Velocity: 50-60 FP.  *See "Operational Analysis, Supplement to Emission Tests," 7/15/87.  SECTION IV: INCINERATOR INFORMATION  Type of Type 0 Type 1 Type II Type III Type III Type IV (Liq. & Gas (Solid By-prod.))  Actual 1b/ha Incinerated (Rubbish) (Refuse) (Garbage) (Patholog- (Liq. & Gas (Solid By-prod.))  Actual 1b/ha Incinerated (1bs/hr) Design Capacity (1bs/hr)  Peroximate Number of Hours of Operation per day day/wk wks/yr.  anufacturer ate Constructed Model No.  Volume (ft) Model No.  Volume (ft) Heat Release (BTU/hr) Type BTU/hr (Ff)  Secondary Chember tack Height: ft. Stack Diamter: Stack Temp.  as flow Rate: ACFM DSCFM* Velocity: FPS  If 50 or acre tone per day design capacity, subsit the emissions rate in grains per stanard cubic foot dry gas corrected to 50% excess air.  [] Other (specify)								
			[] 0	ther (spe	cify)		·	
ER Form 1	7-1.202(1)							·

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rief description	5. <b>5</b> p51.	, a 1								······································	
	<del></del>										
						<u> </u>					
						<del>,,</del>	<del> </del>		· <del></del>	<del> </del>	
ltimate disposal sh, etc.):	of any e	ffluent	other	than	that	emitted	from	the	stack	(scrubber	water
···					1		·		-		
									<del></del>		
			·		<del></del>				<del></del>		
										,	

NOTE: Items 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where applicable.

#### SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

- Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
- 2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
- 3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
- With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, design pressure drop, etc.)
- With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emissions = potential (1-efficiency).
- An 8 1/2" x ll": flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
- 7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
- 8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

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9.	The appropriate application fee in accommade payable to the Department of Envi	cordance with Rule 17-4.05. The check should b ronmental Regulation.			
10	<ul> <li>With an application for operation per atruction indicating that the source permit.</li> </ul>	mit, attach a Certificate of Completion of Con was constructed as shown in the construction			
	SECTION VI: BEST AV	AILABLE CONTROL TECHNOLOGY			
Α.	Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 6 applicable to the source?				
	[ ] Yes [ ] No	· ·			
	Contaminant	Rate or Concentration			
		_			
8.	yes, attach copy)	ontrol technology for this class of sources (I			
	[ ] Yes [ ] No 🦠				
	Contaminant	Rate or Concentration			
с.	What emission levels do you propose as best available control technology?				
	Contaminant	Rate or Concentration			
		1			
D.	Describe the existing control and treat	tment technologý (if any).			
	1. Control Device/System:	2. Operating Principles:			
	3. Efficiency:*	4. Capital Costs:			

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\*Explain method of determining

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	5. Useful Life:		6. Operating Costs:			
	7.	Energy:		8.	Maintenance Cost:	
	9.	Emissions:				
		Contaminant			Rate or Concentration	
		· ·				
	10	. Stack Parameters				
	a.	Height:	ft.	b.	Diameter:	ft.
	c.	Flow Rate:	ACFM	ď.	Temperature:	°F,
	е.	Velocity:	FPS			
ε.		scribe the control and treatmen e additional pages if necessary)		olog	y available (As many types as a	pplicable
	l.	. 9				
	a.	Control Device:		ь.	Operating Principles:	
	c.	Efficiency:1		d.	Capital Cost:	
	e.	Useful Life:		f.	Operating Cost:	
	g.	Energy: <sup>2</sup>		h.	Maintenance Cost:	
	i.	Availability of construction m	aterial	s an	d process chemicals:	
	j.	Applicability to manufacturing	proces	ses:		
	k.	Ability to construct with contwithin proposed levels:	trol de	vice	, install in available space, an	id operat
	2.					
	a .	Control Device:		b.	Operating Principles:	
	c.	Efficiency: 1 .		d.	Capital Cost:	
	е.	Useful Life:		f.	Operating Cost:	
	g .	Energy: <sup>2</sup>		h.	Maintenance Cost:	
	i.	Availability of construction ma	aterial	s and	process chemicals:	
lExp 2En	olai ergy	n method of determining efficients to be reported in units of elem	ncy. ctrical	powe	er – KWH design rate.	

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Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 3. b. Operating Principles: Control Device: Efficiency: 1 d. Capital Cost: Operating Cost: Useful Life: Energy: 2 Maintenance Cost: q. Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: Control Device: b. Operating Principles: Efficiency: 1 d. Capital Costs: Useful Life: f. Operating Cost: Energy: 2 h. Maintenance Cost: α. Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: Describe the control technology selected: 1. Control Device: 2. Efficiency: 1 Useful Life: Capital Cost: Energy: 2 5. Operating Cost: Maintenance Cost: Manufacturer: Other locations where employed on similar processes: a. (1) Company: (2) Mailing Address: (3) City: (4) State: <sup>1</sup>Explain method of determining efficiency.  $^{2}$ Energy to be reported in units of electrical power - KWH design rate. DER Form 17-1.202(1)

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(5) Environmental Manager:	
(6) Telephone No.:	
(7) Emissions: 1	
Contaminant	Rate or Concentration
	·
(8) Process Rate: 1	
b. (1) Company:	
(2) Mailing Address: .	•
(3) City:	(4) State:
(5) Environmental Manager:	
(6) Telephone No.:	
(7) Emissions: 1	
Contaminant	. Rate or Concentration
·	
(8) Process Rate: 1	· ·
10. Reason for selection and description	n of systems:
Applicant must provide this information who available, applicant must state the reason(s	
A. Company Monitored Data	5. 0.5 15 02.12 15
	( ) 50 <sup>2</sup> * Wind spd/dir
Period of Monitoring / month c	
Other data recorded	
Attach all data or statistical summaries	to this application.
*Specify bubbler (B) or continuous (C).	
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	a. Was instrumentation EPA	referenced or its equivalent? [ ] Yes [ ] No					
	b. Was instrumentation calibrated in accordance with Department procedures?						
	[ ] Yes [ ] No [ ] Unk	nown					
в.	Meteorological Data Used for Air Quality Modeling						
	1. Year(a), of data from // to // month day year month day year						
	2. Surface data obtained from (location)						
	3. Upper air (mixing height) data obtained from (location)						
	4. Stability wind rose (STAR) data obtained from (location)						
c.	Computer Models Used						
	1.	Modified? If yes, attach description.					
		Modified? If yes, attach description.					
		Modified? If yes, attach description.					
		Modified? If yes, attach description.					
		odel runs showing input data, receptor locations, and prin-					
D.	Applicants Maximum Allowable	Emission Data					
	Pollutant	Emission Rate					
	TSP	grams/sec					
	so <sup>2</sup>	grams/sec					
٤.	Emission Data Used in Modelia	ngo waala waaqaang					
	Attach list of emissionssour: point source (on NEDS: points and normal operating time.	ces; e:Emission: defaerequired: isasourcer.oame; e:description: offme. reumber):::!!!! Mocorordinates; stack:data,aækbowabdæxemissione; vow					

2. Instrumentation, Field and Laboratory

F. Attach all other information supportivents the PSD review. The ASD regree

- G. Discuss the social and economic impact of the selected technology versus other application ble technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include assessment of the environmental impact of the sources.
- H. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.

#### ATTACHMENT A

This application addresses the following items for the two Lonesome phophate rock dryers:

1. Emission limits:

Format: eliminates double specification of same limit. NOx: corrects original estimate of existing emissions. CO: corrects omission of fuel specification. VOC: corrects original estimate of existing emissions. proposes auxiliary limitation specification.

- 2. Fuel Sulfur Content correction of condition specification of the BACT Determination limit.
- 3. Maximum production rate related to heat input rather than tonnage.
- 4. Continuous analyzer test methods added as allowable test methods. VOC test method adaptation proposed.
- 5. Revision of test operating condition related to heat input rather than tonnage.
- 6. Correction of scrubber water flow and pressure drop specification.
- 7. Revision of daily record requirements.

The primary documents related to the review of the dryer permit conditions are the following:

- 1. Application for Federal PSD Approval, Volume I, Nov. 1981. This is original Brewster application for the fuel conversion project.
- Supplemental Information, Application of Federal PSD Approval PSD-FL-088, Jan. 1982.
   This is a subsequent submittal by Brewster to the original application.
- Technical Evaluation and Preliminary Determination, April 14, 1982.
- 4. Final Determination, May 25, 1982.
- Operation Analysis, Supplement to Emission Tests, July 15, 1987.
   IMC document of additional analyses done during compliance testing.
- 6. PSD Permit Application Review, September 30, 1987. IMC basis for requesting the revision of the PSD application changes.



### Bepartment of State

I certify from the records of this office that IMC FERTILIZER, INC. is a corporation organized under the laws of Delaware, authorized to transact business in the State of Florida, qualified on July 1, 1987.

The document number of this corporation is P15049.

I further certify that said corporation has paid all fees due this office through December 31, 1987, and its status is active.

Given under my hand and the Great Seal of the State of Florida, at Tallahassee, the Capital, this the 10th day of September, 1987.

THE STATE OF THE S

CR2E022 (10-85)

Jim Smith Secretary of State