



**IMC**

xc: Stack Team - UR Bldg.



**Certified Mail 7099 3400 0005 0929 1619**  
**Return Receipt Requested**

November 9, 2000

Mr. W. C. Thomas, P. E.  
Florida Department of  
Environmental Protection  
Southwest District  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

**RECEIVED**

MAR 12 2001

BUREAU OF AIR REGULATION

**RE: Multifos "A" and "B" Kilns Dryer & Blending Operation**  
**Permit ID No. 1050059-014-AV**  
**Unit ID No. 036**  
**New Wales Plant**

Dear Mr. Thomas:

Enclosed are the results of the compliance test for the above-referenced permit.

IMC Phosphates requests that the use of dried feed for the kilns be considered confidential pursuant to Section 403.111, Florida Statutes.

If you have any questions, please contact me at 863-428-7106.

Sincerely,

P. A. Steadham, Manager  
Environmental Services  
Concentrates - Florida

PAS: oan

Enclosures

cc: A. A. Linero (FDEP - Tallahassee)

a:\t ~~1100~~

## Report of Compliance Sampling

### **IMC-Phosphates Company**

Project: Multifos A & B Production

Facility: New Wales Operations

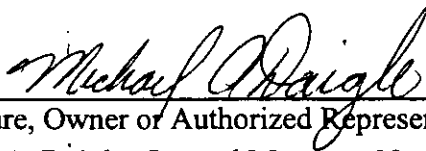
Point ID: 36

AIRS: 1050059

Permit Number: 1050059 - 014 - AV

Test Date: November 2, 2000

To the best of my knowledge, all applicable field and analytical procedures comply with Florida Department of Environmental Protection requirements and all test data and plant operating data are true and correct.



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Signature, Owner or Authorized Representative  
Michael A. Daigle, General Manager, New Wales

### **IMC-Phosphates Company**

P.O. Box 2000

Mulberry, FL 33860

(863) 428-2500

Company ID #: 1100

11/08/2000

**Introduction:**

This report details the compliance sampling results for the following source:

Project: Multifos A & B Production  
Facility: New Wales Operations  
Point ID: 36  
AIRS: 1050059  
Permit Number: 1050059 - 014 - AV  
Test Date: November 2, 2000

**Summary of Results**

The source was found to be in compliance with the permits and regulations of the Florida Department of Environmental Protection. The process data and emissions testing results are summarized below:

**Process Data:**

**Kilns P2O5 Feed Rate**                      4.60 TPH  
**Wet Rock Dryer Feed Rate**                40 TPH

**Fuel Firing Information**

**Fuel:** Natural Gas

**Oil Firing since Last Test:**      NO  
**Dryer Fuel Rate**                      2.4 MMBtu/hr  
**A Kiln Fuel Rate**                      5.3 MMBtu/hr  
**B Kiln Fuel Rate**                      49.8 MMBtu/hr

**Emissions:**

Allowables by Permit Condition Number P7, P.12

	Actual	Allowable
Fluorides: lb/hr	1.52	1.7 based on P2O5 feed rate
lb/ton P2O5	0.331	0.37
Particulates: lb/hr	10.88	29.83
Visible Emissions: %	12.1	20

**Emissions Testing Methods:**

Methods in accordance with Specific Condition Number P15

Fluorides: Method 5 & 13B Combined with modifications as allowed by Department for analysis.  
Particulate: Method 5 & 13B Combined.  
Visible Emissions: Method 9

# IMC-Agrico Company

## Process Information

Project: Multifos A & B Production  
 Facility: New Wales Operations  
 Point ID: 36  
 AIRS: 1050059  
 Permit Number: 1050059 - 014 - AV  
 Test Date: November 2, 2000  
 Test Time: 937-1333

Page 1 of 2

### Process Rate Data & Calculations

Kiln Feed Rate								
Date	Time	Kiln	Kiln Feed Rate	Kiln Feed Moisture	% P	1.43646 %P2O5/%P	P2O5 TPH	
11/02/2000	0937-1040	B Kiln	12.75	1.64	16	0.43646	4.60	
							Total P2O5 TPH	4.60
11/02/2000	1108-1214	B Kiln	12.75	1.64	16	0.43646	4.60	
							Total P2O5 TPH	4.60
11/02/2000	1229-1333	B Kiln	12.75	1.64	16	0.43646	4.60	
							Total P2O5 TPH	4.60
<b>Average B Kiln Feed Rate:</b>			<b>12.75</b>				<b>Average P2O5 TPH</b>	<b>4.60</b>

A Kiln Dryer Feed Rate			
Date	Time	Kiln	Kiln Feed Rate
11/02/2000	0937-1040	A Kiln	25
11/02/2000	1108-1214	A Kiln	25
11/02/2000	1229-1333	A Kiln	25
<b>Average A Kiln Feed Rate:</b>			<b>25</b>

Rock Dryer Feed Rate			
Date	Time	Rock Feed Rate TPH	
11/02/2000	0937-1040	40	
11/02/2000	1108-1214	40	<b>Average Rock Feed Rate</b>
11/02/2000	1229-1333	40	<b>40.0</b>

# IMC-Agrico Company

## Process Information

Project: Multifos A & B Production  
 Facility: New Wales Operations  
 Point ID: 36  
 AIRS: 1050059  
 Permit Number: 1050059 - 014 - AV  
 Test Date: November 2, 2000  
 Test Time: 937-1333

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### Process Rate Data & Calculations

#### Fuel Usage Information

Date	Time	Fuel Type	Rock Dryer Fuel Rate mmBTU/hr	A Kiln Fuel Rate mmBTU/hr	B Kiln Fuel Rate mmBTU/hr
11/02/2000	937-1040	Natural Gas	2.4	5.3	49.8
11/02/2000	1108-1214	Natural Gas	2.4	5.3	49.8
11/02/2000	1229-1333	Natural Gas	2.4	5.3	49.8
<b>Average Fuel Firing Rates</b>			<b>2.4</b>	<b>5.3</b>	<b>49.8</b>

Oil Fired Since Last Test? **NO**  
 Last Test 02/02/1999

#### Scrubber Data

Date	Time	A Scrubber		B Scrubber		Equipment Scrubber	
		Flow GPM	Delta P	Flow GPM	Delta P	Flow GPM	Delta P
11/02/2000	9:00	2258	3.4	3847	3.5	2594	2.40
	10:00	1821	3.5	3896	3.5	2649	2.50
	11:00	2207	3.4	3804	3.5	2598	2.50
	12:00	2263	3.4	3787	3.5	2579	2.40
	13:00	2257	3.4	3791	3.5	2576	2.40
<b>Averages</b>		<b>2161.2</b>	<b>3.4</b>	<b>3825</b>	<b>3.50</b>	<b>2599.2</b>	<b>2.44</b>

#### Process Statement:

I certify that the above statements are true and correct to the best of my knowledge.

Signature: Jack R. Clements  
 Title: Production Superintendent  
 Date: 11/6/2000

VISIBLE EMISSION OBSERVATION FORM

SOURCE NAME  
**IMC PHOSPHATES**

ADDRESS  
**3095 C.R. 640 W.**

**NEW WALES PLANT**

CITY **MULBERRY** STATE **FL** ZIP **33860**

PHONE **863-428-7353** SOURCE ID NUMBER **1050059-014-AV-036**

PROCESS EQUIPMENT **MULTIFOS PRODUCTION** OPERATING MODE **37.75TPH**

CONTROL EQUIPMENT **WET SCRUBBER** OPERATING MODE **NORMAL**

DESCRIBE EMISSION POINT

START **CIRC. STACK** STOP

HEIGHT ABOVE GROUND LEVEL  
START **170** STOP

HEIGHT RELATIVE TO OBSERVER  
START **170** STOP

DISTANCE FROM OBSERVER  
START **500** STOP

DIRECTION FROM OBSERVER  
START **NW** STOP **NW**

DESCRIBE EMISSIONS

START **LOFTING PLUME** STOP

EMISSION COLOR  
START **WHITE** STOP

PLUME TYPE CONTINUOUS  FUGITIVE

WATER DROPLETS PRESENT NO  YES

IS WATER DROPLET PLUME ATTACHED **4/A** DETACHED

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED  
START **10' ABOVE EXIT** STOP

DESCRIBE BACKGROUND

START **SKY** STOP

BACKGROUND COLOR  
START **BLUE** STOP

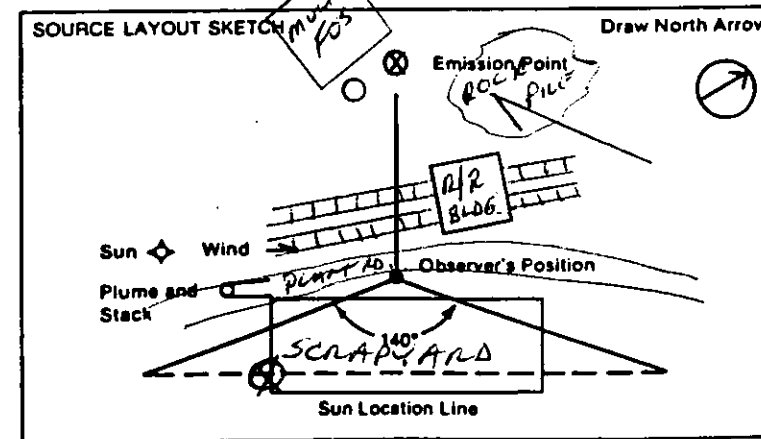
SKY CONDITIONS  
START **CLEAR** STOP

WIND SPEED  
START **3-5** STOP

WIND DIRECTION  
START **NE** STOP

AMBIENT TEMP  
START **81** STOP

WET BULB TEMP **68** RH, percent **51%**



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

TITLE \_\_\_\_\_

OBSERVATION DATE		START TIME				STOP TIME			
11-2-00		12:25				13:25			
MIN	SEC				MIN	SEC			
	0	15	30	45		0	15	30	45
1	15	15	15	15	31	10	15	15	15
2	15	15	15	15	32	15	15	15	15
3	15	15	15	15	33	15	15	15	15
4	15	15	15	15	34	15	15	15	15
5	15	15	15	15	35	15	15	15	15
6	15	15	15	15	36	15	15	10	10
7	15	15	15	10	37	10	10	10	15
8	10	10	15	15	38	15	15	15	15
9	15	15	15	15	39	15	15	15	15
10	15	15	15	15	40	15	15	15	15
11	15	15	15	15	41	15	15	15	15
12	15	15	15	15	42	15	15	15	15
13	15	15	15	15	43	15	15	15	10
14	15	15	15	15	44	10	15	15	15
15	15	15	15	15	45	15	15	15	15
16	15	15	10	10	46	15	15	10	15
17	15	15	15	15	47	15	15	15	15
18	15	15	15	15	48	15	15	15	15
19	15	15	15	15	49	15	15	15	15
20	15	15	15	15	50	15	15	15	15
21	15	15	15	15	51	15	15	15	15
22	15	15	15	15	52	10	10	10	15
23	10	10	10	15	53	15	15	15	15
24	15	15	15	15	54	15	15	15	15
25	15	15	15	15	55	15	15	15	15
26	15	15	15	15	56	15	15	15	15
27	15	15	15	15	57	15	10	10	15
28	15	15	15	15	58	15	15	15	15
29	15	15	15	15	59	15	15	15	15
30	15	15	10	10	60	15	15	15	15

AVERAGE OPACITY FOR HIGHEST PERIOD **15%** NUMBER OF READINGS ABOVE **20%** WERE **0**

RANGE OF OPACITY READINGS  
MINIMUM **10** MAXIMUM **15**

OBSERVER'S NAME (PRINT) **JEFFREY J. KENT**

OBSERVER'S SIGNATURE **[Signature]** DATE **11/2/00**

ORGANIZATION **IMC PHOSPHATES**

CERTIFIED BY **ETA TAMPA** DATE **8/26/00**

VERIFIED BY \_\_\_\_\_ DATE \_\_\_\_\_

Source Sampling Summary Sheet						
Facility:	NEW WALES					
Plant:	MULTIFOS A & B KILN					
Company ID:	1100					
FDEP AIRS & Pt. ID:	10500059-036					
Test Team:	DA, FB					
Parameter	Unit	Run 1	Run 2	Run 3	Average	
Date:		11/2/2000	11/2/2000	11/2/2000		
Time Start:		937	1108	1229		
Time End:		1040	1214	1333		
Barometric Pressure:	Inch Hg	30.29	30.29	30.29		
Static Pressure:	Inch H2O	0.42	0.42	0.42		
Stack Pressure:	Inch Hg	30.321	30.321	30.321		
Average Sqrt Delta P:	Inch HOH 1/2	1.016	1.023	1.009		
Average Delta H:	Inch HOH	1.150	1.183	1.183	1.172	
Maximum Run Vacuum:	Inch Hg	7.0	7.0	7.0		
Meter Box Number:	Unity	3187	3187	3187		
Average Meter Temp:	Degrees F	77.8	83.4	87.2		
Average Stack Temp:	Degrees F	105.8	107.9	108.1	107.3	
Metered Sample Volume:	Cubic Feet	37.31	37.71	37.52		
Standard Meter Volume:	Cubic Feet	37.06	37.07	36.63		
Moisture Measured:	%	0.0473	0.0434	0.0511		
Moisture Saturation:	%	0.0758	0.0806	0.0810		
Moisture Used for Calculations:	%	0.0473	0.0434	0.0511	0.0473	
Pitot Coefficient:	Unity	0.84	0.84	0.84		
Nozzle Diameter:	Inch	0.19	0.19	0.19		
Stack Area:	Square Feet	15.90	15.90	15.90		
Traverse Points:	Unity	12	12	12		
Sampling Time:	Minutes	60	60	60		
Stack Gas Molecular Weight:	lb/lb-mol	28.450	28.493	28.408		
Actual Stack Velocity:	Feet/sec	59.116	59.588	58.857	59.187	
Actual Stack Gas Flow:	ACFM	56383	56833	56137	56451	
Dry Standard Stack Gas Flow:	DSCFM	50793	51222	50171	50729	
Isokinetic Rate:	%	98.26	97.46	98.33		
Fluoride Emission:	lb/day	42.19	32.08	37.35	37.21	
Fluoride Emission:	lb/hr	1.76	1.34	1.56	1.55	
Particulate Emission:	lb/day	206.94	103.88	213.72	174.85	
Particulate Emission:	lb/hr	8.62	4.33	8.91	7.29	

## **Test Participants**

### **Conducted the Field Testing**

- 1 D.Carroll
- 2 F. Barnes
- 3 R. Sellers

### **Performed the Laboratory Analysis**

- 1 D.Carroll
- 2 F. Barnes
- 3 R. Sellers

### **Provided the Process Data**

- 1 P. Green

### **Prepared the Test Report**

- 1 F. Barnes



Field Data

&

Run Calculations



## Run 1

## Run 1 Data

Facility: NEW WALES  
 Plant: MULTIFOS A & B KILN  
 Company ID: 1100  
 FDEP AIRS & Pt. ID: 10500059-036  
 Test Team: DA, FB

Date: 11/02/00  
 Start Time: 937 End Time: 1040

Number of Traverse Points: 12  
 Dwell Time/Point: 5 min.  
 Total Test Time: 60 min.

Stack Diameter: 54 inches  
 Stack Area: 15.90 sq. ft.

Molecular Weight Dry Md: 28.969  
 Volume of Water Vapor Condensed: 32 ml  
 Weight of Water Collected in Silica Gel: 7.1 gram  
 Moisture Volume Fraction Bwo: 0.0473  
 Moisture Volume Saturated Bwo: 0.0758  
 Moisture Percent Saturation: 62  
 Moisture Used for Calculations: 0.0473  
 Stack Molecular Weight Ms: 28.450

Barometric Pressure Pb: 30.29 in Hg  
 Stack Static Pressure Pv: 0.42 in H<sub>2</sub>O  
 Stack Pressure Ps: 30.321 in Hg  
 Average Meter Delta H: 1.150 in H<sub>2</sub>O  
 Meter Pressure Pm: 30.375 in Hg  
 Console Number: 3187  
 Meter Delta Ha: 1.742  
 Meter Correction Factor: 0.9969

Average Meter Temperature: 77.8 deg. F  
 Average Stack Temperature: 105.8 deg. F 41.0 deg C

Average Square Root Delta P: 1.016  
 Meter Volume Vm: 37.31 cu. ft.  
 Probe Length/Liner: 5' SS  
 Cp: 0.84  
 Nozzle Ident.: 0.190  
 Nozzle Diameter Dn: 0.190 in.  
 Impinger Set Number: P-1  
 Average Computer K: 1.1350

Run 1 Data Sheet

Facility: NEW WALES  
 Plant: MULTIFOS A & B KILN  
 Team (CB/PR): DA, FB

Company ID: 1100  
 FDEP AIRS & Pt. ID: 10500059-036

Date: 11/2/2000  
 Dwell Time: 5 min.  
 Traverse Points: 12  
 Stack Diameter: 54 inches  
 Est % Saturation: 95 %  
 Stack Static Pressure: 0.42 in H2O  
 Barometric Pressure: 30.29 in Hg  
 Dry Molecular Weight: 28.969

Meter Box Number: 3187  
 Meter Delta Ha (in. H2O): 1.742  
 Meter Correction Factor: 0.9969  
 Nozzle Ident.: 0.19  
 Nozzle Diameter Dn: 0.190  
 Impinger Set Number: P-1  
 Probe length/Liner: 5' SS  
 Filter Set Number: 1

Pitot Check  
 pos: 4.8 in H2O  
 neg: 4.8 in H2O  
 Leak Check  
 cfm: 0.000 cfm  
 vac: 15 in Hg

Time Start: 937

Point	Time	Meter Volume	Delta P	Calc'd Delta H	Actual Delta H	Stack Temp	Probe Temp	Hot Box Temp	Meter In Temp	Meter Out Temp	Impinger Temp	Pump Vac
1	0.0	150.013	1.1	1.241	1.2	105	242	260	71	71	67	4
2	5.0	153.17	1.1	1.241	1.2	106	239	242	74	71	49	5
3	10.0	156.32	1.1	1.238	1.2	107	236	227	77	71	50	5
4	15.0	159.45	1.1	1.234	1.2	107	242	265	81	72	52	6
5	20.0	162.62	0.98	1.105	1.1	106	241	251	83	73	52	6
6	25.0	165.69	0.87	0.989	1	104	245	240	84	74	54	5
7	30.0	168.549	1	1.151	1.1	105	244	239	83	74	53	6
8	35.0	171.61	1.1	1.259	1.3	107	242	235	85	75	52	7
9	40.0	174.83	1.1	1.248	1.2	107	234	243	85	75	54	7
10	45.0	178.05	1.1	1.248	1.2	107	235	252	86	76	57	7
11	50.0	181.26	1	1.137	1.1	105	239	251	86	76	58	7
12	55.0	184.38	0.87	1.000	1	104	241	248	87	77	60	6
13	60.0	187.323										
End				Average		105.8			77.8		54.8	
			1.1	Max			245	265			67	7
				Min			234	227			49	
				Range			223-273	223-273			32-68	

Time End: 1040

Pitot Check  
 pos: 5.0 in H2O  
 neg: 4.7 in H2O  
 Leak Check  
 cfm: 0.000 <0.020 cfm  
 vac: 8 in Hg

Field Data Sheet

Run Number: 1

Facility: New Wales  
 Plant: Multi-Fox AEB Kiln  
 Test Team: DC, FB

Company ID: 1100  
 FDEP AIRS & Pt. ID: 1050059-036

Date: 11/02/2000  
 Traverse Points: 12  
 Stack Diameter: 54 inches  
 Dwell Time: 5 min.  
 Est % Saturation: 95 %  
 Stack Static Pressure: .42 in H2O  
 Barometric Pressure: 30.29 in Hg  
 Dry Molecular Weight: 28.969

Meter Box Number: 3187  
 Meter Delta Ha (in. H2O): 1.742  
 Meter Correction Factor: .9969  
 Nozzle Identification: 190  
 Nozzle Diameter Dn: 190  
 Impinger Set Number: P-1  
 Probe length/Liner: 5'55  
 Filter Set Number: 1

Pitot Check  
 pos: 4.8 in H2O  
 neg: 4.8 in H2O  
 Leak Check  
 cfm: .00  
 vac: 15 in Hg

Time Start: 437

Point	Time	Meter Volume	Delta P	Actual Delta H	Stack Temp	Probe Temp	Hot Box Temp	Meter In Temp	Meter Out Temp	Impinger Temp	Pump Vac
1	0	150.013	1.1	1.2	105	242	260	71	71	67	4
2	5	153.17	1.1	1.2	106	239	242	74	71	49	5
3	10	156.32	1.1	1.2	107	236	227	77	71	50	5
4	15	159.45	1.1	1.2	107	242	265	81	72	52	6
5	20	162.62	.98	1.1	106	241	251	83	73	52	6
6	25	165.69	.27	1.0	104	245	240	84	74	54	5
1	7 30	168.549	1.0	1.1	105	244	239	83	74	53	6
2	8 35	171.61	1.1	1.3	107	242	235	85	75	52	7
3	9 40	174.83	1.1	1.2	107	234	243	85	75	54	7
4	10 45	178.05	1.1	1.2	107	235	252	86	76	57	7
5	11 50	181.26	1.0	1.1	105	239	251	86	76	58	7
6	12 55	184.38	.87	1.0	104	241	248	87	77	60	6
13	60	187.323									
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
End											

Time End: 1040

Pitot Check  
 pos: 5.0 in H2O  
 neg: 1.7 in H2O

Leak Check  
 cfm: .00  
 vac: 0 in Hg

Run 2      **Calculations and Results**

Facility: NEW WALES  
 Plant: MULTIFOS A & B KILN  
 Company ID: 1100  
 FDEP AIRS & Pt. ID: 10500059-036  
 Test Team: DA, FB

Date: 11/02/00  
 Start Time: 1108      End Time: 1214

Standard Meter Volume Vms: 37.07 dscf

Average Stack Velocity: 59.59 fps

Stack Gas Volume: 56833 ACFM

Stack Gas Dry Volume: 51222 DSCFM

Isokinetic Variation: 97.46 %

Isokinetics Adjusted For Bws>Saturation: NA %

Vlc calculated for Saturated Conditions: NA ml H2O

**Emission Calculations**

Particulate	Total mg:	23.7 mg
		4.33 lb/hr
		103.88 lb/day

Fluoride	Total mg:	7.32 mg
		1.34 lb/hr
		32.08 lb/day

## Run 2 Data

Facility: NEW WALES  
 Plant: MULTIFOS A & B KILN  
 Company ID: 1100  
 FDEP AIRS & Pt. ID: 10500059-036  
 Test Team: DA, FB

Date: 11/02/00  
 Start Time: 1108 End Time: 1214

Number of Traverse Points: 12  
 Dwell Time/Point: 5 min.  
 Total Test Time: 60 min.

Stack Diameter: 54 inches  
 Stack Area: 15.90 sq. ft.

Molecular Weight Dry Md: 28.969  
 Volume of Water Vapor Condensed: 28 ml  
 Weight of Water Collected in Silica Gel: 7.7 gram  
 Moisture Volume Fraction Bwo: 0.0434  
 Moisture Volume Saturated Bwo: 0.0806  
 Moisture Percent Saturation: 54  
 Moisture Used for Calculations: 0.0434  
 Stack Molecular Weight Ms: 28.493

Barometric Pressure Pb: 30.29 in Hg  
 Stack Static Pressure Pv: 0.42 in H2O  
 Stack Pressure Ps: 30.321 in Hg  
 Average Meter Delta H: 1.183 in H2O  
 Meter Pressure Pm: 30.377 in Hg  
 Console Number: 3187  
 Meter Delta Ha: 1.742  
 Meter Correction Factor: 0.9969

Average Meter Temperature: 83.4 deg. F  
 Average Stack Temperature: 107.9 deg. F 42.2 deg C

Average Square Root Delta P: 1.023  
 Meter Volume Vm: 37.71 cu. ft.  
 Probe Length/Liner: 5' SS  
 Cp: 0.84  
 Nozzle Ident.: 0.190  
 Nozzle Diameter Dn: 0.190 in.  
 Impinger Set Number: F-2  
 Average Computer K: 1.1359

Run 2 Data Sheet

Facility: NEW WALES  
 Plant: MULTIFOS A & B KILN  
 Team (CB/PR): DA, FB

Company ID: 1100  
 FDEP AIRS & Pt. ID: 10500059-036

Date 11/02/2000  
 Dwell Time 5 min.  
 Traverse Points 12  
 Stack Diameter 54 inches  
 Est % Saturation 95 %  
 Stack Static Pressure 0.42 in H2O  
 Barometric Pressure 30.29 in Hg  
 Dry Molecular Weight 28.969

Meter Box Number 3187  
 Meter Delta Ha (in. H2O) 1.742  
 Meter Correction Factor 0.9969  
 Nozzle Ident.: 0.190  
 Nozzle Diameter Dn: 0.190  
 Impinger Set Number: F-2  
 Probe length/Liner: 5' SS  
 Filter Set Number 2

Pitot Check  
 pos 4.1 in H2O  
 neg 4.5 in H2O  
 Leak Check  
 cfm 0.000 cfm  
 vac 15 in Hg

Time Start 1108

Point	Time	Meter Volume	Delta P	Calc'd Delta H	Actual Delta H	Stack Temp	Probe Temp	Hot Box Temp.	Meter In Temp	Meter Out Temp	Impinger Temp	Pump Vac
1	0.0	187.718	1.05	1.200	1.2	104	244	243	75	75	67	4
2	5.0	190.95	1.05	1.200	1.2	108	235	247	79	75	51	4
3	10.0	194.12	1.1	1.234	1.2	109	237	240	85	76	52	4
4	15.0	197.21	1.1	1.235	1.2	109	237	242	89	76	55	5
5	20.0	200.25	1.1	1.240	1.2	109	237	245	91	77	54	5
6	25.0	203.41	1	1.130	1.1	107	239	242	93	78	56	6
7	30.0	206.557	0.96	1.101	1.1	107	239	251	89	78	61	6
8	35.0	209.62	1.1	1.256	1.3	108	237	249	92	79	59	7
9	40.0	212.86	1.1	1.254	1.3	109	238	250	93	80	60	7
10	45.0	216.08	1.1	1.249	1.3	109	236	253	93	80	60	7
11	50.0	219.32	1	1.135	1.1	108	237	249	93	81	61	6
12	55.0	222.41	0.92	1.052	1	108	238	251	94	81	61	6
End	60.0	225.425										
Average						107.9			83.4		58.1	
1.1 Max							244	253			67	7
Min							235	240			51	
Range							223-273	223-273			32-68	

Time End 1214

Pitot Check  
 pos 4.2 1.1 in H2O  
 neg 4.7 1.1 in H2O  
 Leak Check  
 cfm 0.000 <0.020 cfm  
 vac 10 7 in Hg



Field Data Sheet

Run Number: 2

Facility: New Wales  
 Plant: Multifas AFB KJN  
 Test Team: RS/DA/FB

Company ID: 1100  
 FDEP AIRS & Pt. ID: 1050059-036

Date: 11-2-00  
 Traverse Points: 12  
 Stack Diameter: 54 inches  
 Dwell Time: 5 min.  
 Est % Saturation: 95 %  
 Stack Static Pressure: .42 in H2O  
 Barometric Pressure: 30.29 in Hg  
 Dry Molecular Weight: 28.969

Meter Box Number: 3187  
 Meter Delta Ha (in. H2O): 1.742  
 Meter Correction Factor: .9469  
 Nozzle Identification: .140  
 Nozzle Diameter Dn: .190  
 Impinger Set Number: F-2  
 Probe length/Liner: 5'55  
 Filter Set Number: 2

Pitot Check  
 pos: 4.1 in H2O  
 neg: 4.5 in H2O  
 Leak Check  
 cfm: .00  
 vac: 15 in Hg

Time Start: 1108

Point	Time	Meter Volume	Delta P	Actual Delta H	Stack Temp	Probe Temp	Hot Box Temp.	Meter In Temp	Meter Out Temp	Impinger Temp	Pump Vac
1	0	187.718	1.05	1.2	104	244	243	75	75	67	4
2	5	190.95	1.05	1.2	108	235	247	74	75	51	4
3	10	194.12	1.1	1.2	109	237	240	85	76	52	4
4	15	197.21	1.1	1.2	109	237	242	89	76	55	5
5	20	200.25	1.1	1.2	109	237	245	91	77	54	5
6	25	203.41	1.0	1.1	107	239	242	93	78	56	6
7	30	206.557	.96	1.1	107	239	251	89	78	61	6
8	35	209.62	1.1	1.3	108	237	249	92	79	59	7
9	40	212.86	1.1	1.3	109	238	250	93	80	60	7
10	45	216.02	1.1	1.3	109	236	253	93	80	60	7
11	50	219.32	1.0	1.1	108	237	249	93	81	61	6
12	55	222.41	.92	1.0	108	238	251	94	81	61	6
13	60	225.425									
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
End											

Time End: 1214

Pitot Check  
 pos: 4.2 in H2O  
 neg: 4.7 in H2O

Leak Check  
 cfm: .000  
 vac: 10 in Hg

**Run 3      Calculations and Results**

Facility: NEW WALES  
 Plant: MULTIFOS A & B KILN  
 Company ID: 1100  
 FDEP AIRS & Pt. ID: 10500059-036  
 Test Team: DA, FB

Date: 11/02/00  
 Start Time: 1229      End Time: 1333

Standard Meter Volume Vms: 36.63 dscf

Average Stack Velocity: 58.86 fps

Stack Gas Volume: 56137 ACFM

Stack Gas Dry Volume: 50171 DSCFM

Isokinetic Variation: 98.33 %

Isokinetics Adjusted For Bws>Saturation: NA %

Vlc calculated for Saturated Conditions: NA ml H2O

**Emission Calculations**

Particulate	Total mg:	49.2 mg
		8.91 lb/hr
		213.72 lb/day

Fluoride	Total mg:	8.60 mg
		1.56 lb/hr
		37.35 lb/day

## Run 3 Data

Facility: NEW WALES  
 Plant: MULTIFOS A & B KILN  
 Company ID: 1100  
 FDEP AIRS & Pt. ID: 10500059-036  
 Test Team: DA, FB

Date: 11/02/00  
 Start Time: 1229 End Time: 1333

Number of Traverse Points: 12  
 Dwell Time/Point: 5 min.  
 Total Test Time: 60 min.

Stack Diameter: 54 inches  
 Stack Area: 15.90 sq. ft.

Molecular Weight Dry Md: 28.969  
 Volume of Water Vapor Condensed: 34 ml  
 Weight of Water Collected in Silica Gel: 7.9 gram  
 Moisture Volume Fraction Bwo: 0.0511  
 Moisture Volume Saturated Bwo: 0.0810  
 Moisture Percent Saturation: 63  
 Moisture Used for Calculations: 0.0511  
 Stack Molecular Weight Ms: 28.408

Barometric Pressure Pb: 30.29 in Hg  
 Stack Static Pressure Pv: 0.42 in H2O  
 Stack Pressure Ps: 30.321 in Hg  
 Average Meter Delta H: 1.183 in H2O  
 Meter Pressure Pm: 30.377 in Hg  
 Console Number: 3187  
 Meter Delta Ha: 1.742  
 Meter Correction Factor: 0.9969

Average Meter Temperature: 87.2 deg. F  
 Average Stack Temperature: 108.1 deg. F 42.3 deg C

Average Square Root Delta P: 1.009  
 Meter Volume Vm: 37.52 cu. ft.  
 Probe Length/Liner: 5' SS  
 Cp: 0.84  
 Nozzle Ident.: 0.190  
 Nozzle Diameter Dn: 0.190 in.  
 Impinger Set Number: F-3  
 Average Computer K: 1.1412

Run 3 Data Sheet

Facility: NEW WALES  
 Plant: MULTIFOS A & B KILN  
 Team (CB/PR): DA, FB

Company ID: 1100  
 FDEP AIRS & Pt. ID: 10500059-036

Date 11/02/2000  
 Dwell Time 5 min.  
 Traverse Points 12  
 Stack Diameter 54 inches  
 Est % Saturation 95 %  
 Stack Static Pressure 0.42 in H2O  
 Barometric Pressure 30.29 in Hg  
 Dry Molecular Weight 28.969

Meter Box Number 3187  
 Meter Delta Ha (in. H2O) 1.742  
 Meter Correction Factor 0.9969  
 Nozzle Ident.: 0.190  
 Nozzle Diameter Dn: 0.190  
 Impinger Set Number: F-3  
 Probe length/Liner: 5' SS  
 Filter Set Number 3

Pitot Check  
 pos 4.5 in H2O  
 neg 4.5 in H2O  
 Leak Check  
 cfm 0.000 cfm  
 vac 15 in Hg

Time Start 1229

Point	Time	Meter Volume	Delta P	Calc'd Delta H	Actual Delta H	Stack Temp	Probe Temp	Hot Box Temp	Meter In Temp	Meter Out Temp	Impinger Temp	Pump Vac
1	0.0	226.141	1	1.130	1.1	108	237	239	81	81	65	4
2	5.0	229.21	1.1	1.244	1.3	108	235	251	87	81	49	5
3	10.0	232.42	1.1	1.250	1.3	108	236	241	89	81	49	5
4	15.0	235.64	1.1	1.253	1.3	108	235	252	92	82	51	5
5	20.0	238.79	0.94	1.074	1.1	108	234	247	93	82	54	5
6	25.0	241.91	0.89	1.018	1	107	236	245	94	83	54	5
7	30.0	244.841	1	1.153	1.2	108	237	243	88	83	60	5
8	35.0	247.94	1	1.140	1.1	108	235	244	93	83	56	5
9	40.0	251.05	1.1	1.260	1.3	108	236	247	94	84	57	6
10	45.0	254.29	1.1	1.262	1.3	109	235	249	95	86	58	7
11	50.0	257.55	1	1.144	1.2	109	238	248	94	86	60	7
12	55.0	260.73	0.91	1.040	1	108	237	241	94	86	61	6
End	60.0	263.664										
Average						108.1			87.2		56.2	
1.1 Max							238	252			65	7
Min							234	239			49	
Range							223-273	223-273			32-68	

Time End 1333

Pitot Check  
 pos 4.2 1.1 in H2O  
 neg 4.8 1.1 in H2O  
 Leak Check  
 cfm 0.000 <0.020 cfm  
 vac 11 7 in Hg

Field Data Sheet

Run Number: 3

Facility: New Wales  
 Plant: Multifos A&B kiln  
 Test Team: DC, FB

Company ID: 1100  
 FDEP AIRS & Pt. ID: 1050059-026

Date: 11/2/2000  
 Traverse Points: 12  
 Stack Diameter: 54 inches  
 Dwell Time: 5 min.  
 Est % Saturation: 95 %  
 Stack Static Pressure: .42 in H2O  
 Barometric Pressure: 30.29 in Hg  
 Dry Molecular Weight: 28.969

Meter Box Number: 3187  
 Meter Delta Ha (in. H2O): 1.742  
 Meter Correction Factor: .9969  
 Nozzle Identification: .190  
 Nozzle Diameter Dn: .190  
 Impinger Set Number: F-3  
 Probe length/Liner: 555  
 Filter Set Number: 3

Pitot Check  
 pos: 4.5 in H2O  
 neg: 4.5 in H2O  
 Leak Check  
 cfm: 1000  
 vac: 15 in Hg

Time Start: 1229

Point	Time	Meter Volume	Delta P	Actual Delta H	Stack Temp	Probe Temp	Hot Box Temp.	Meter In Temp	Meter Out Temp	Impinger Temp	Pump Vac
1	0	226.141	1.0	1.1	108	237	239	81	81	65	4
2	5	229.21	1.1	1.3	108	235	251	87	81	49	5
3	10	232.42	1.1	1.3	108	236	241	89	81	49	5
4	15	235.64	1.1	1.3	108	235	252	92	82	51	5
5	20	238.79	.94	1.1	108	234	247	93	82	54	5
6	25	241.91	.89	1.0	107	236	245	94	83	54	5
1	7 30	244.841	1.0	1.2	108	237	243	88	83	60	5
2	8 35	247.94	1.0	1.1	108	235	244	93	83	56	5
3	9 40	251.05	1.1	1.3	108	236	247	94	84	57	6
4	10 45	254.29	1.1	1.3	109	235	249	95	86	58	7
5	11 50	257.55	1.0	1.2	109	238	248	94	86	60	7
6	12 55	260.73	.91	1.0	108	237	241	94	86	61	6
13	60	263.64									
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
End											

Time End: 1333

Pitot Check  
 pos: 4.2 in H2O  
 neg: 4.0 in H2O

Leak Check  
 cfm: 1000  
 vac: 11 in Hg

## Analytical Data

# IMC-Phosphates Company

## Particulate and Moisture Data Sheet Method 5 & 13B Combined

Facility NEW WALES

Date : 11/02/00

Plant MULTIFOS A & B KILN

Run 1

## Impinger Set Number: P-1

Impinger Number:	1	2	3	4
Final (grams/mls):	130	102	0	343.5
Initial (grams/mls):	100	100	0	336.4
Difference (grams/mls):	30	2	0	7.1
Total Moisture Collected:			32 mls	7.1 gram

## Filter Set Number: 1

Filter Analysis		Probe Wash Analysis	
Filter Number:	4	Beaker Number:	M
Final Weight	0.7519	Final Weight:	144.2945
Initial Weight:	0.7129	Initial Weight:	144.2859
Difference:	0.0390	Difference:	0.0086

### Fluoride and Particulate Calculations

#### Fluoride

Probe Wash Fluoride mg	2.46
Impinger Fluoride mg:	0.24
Filter Fluoride mg:	7.00
Total Fluoride mg:	9.70

#### Particulate

Probe Wash Particulate mg	8.6
Filter Particulate mg:	39.0
Total Particulate mg:	47.6

**IMC-Phosphates Company****Particulate and Moisture Data Sheet  
Method 5 & 13B Combined**Facility NEW WALES

Date : 11/02/00

Plant MULTIFOS A & B KILN

Run 2

Impinger Set Number: F-2

Impinger Number:	1	2	3	4
Final (grams/mls):	126	102	0	333.1
Initial (grams/mls):	100	100	0	325.4
Difference (grams/mls):	26	2	0	7.7
Total Moisture Collected:			28 mls	7.7 gram

Filter Set Number: 2

Filter Analysis		Probe Wash Analysis	
Filter Number:	5	Beaker Number:	8
Final Weight	0.6805	Final Weight:	157.2183
Initial Weight:	0.6635	Initial Weight:	157.2116
Difference:	0.0170	Difference:	0.0067

**Fluoride and Particulate Calculations****Fluoride**

Probe Wash Fluoride mg	2.03
Impinger Fluoride mg:	0.29
Filter Fluoride mg:	5.00
Total Fluoride mg:	7.32

**Particulate**

Probe Wash Particulate mg	6.7
Filter Particulate mg:	17.0
Total Particulate mg:	23.7



**IMC-Phosphates Company****Particulate and Moisture Data Sheet  
Method 5 & 13B Combined**Facility NEW WALES

Date: 11/02/00

Plant MULTIFOS A & B KILN

Run 3

Impinger Set Number: F-3

Impinger Number:	1	2	3	4
Final (grams/mls):	132	102	0	324.9
Initial (grams/mls):	100	100	0	317.0
Difference (grams/mls):	32	2	0	7.9
Total Moisture Collected:			34 mls	7.9 gram

Filter Set Number: 3

Filter Analysis		Probe Wash Analysis	
Filter Number:	6	Beaker Number:	31
Final Weight	0.7340	Final Weight:	124.3304
Initial Weight:	0.6942	Initial Weight:	124.3210
Difference:	0.0398	Difference:	0.0094

**Fluoride and Particulate Calculations****Fluoride**

Probe Wash Fluoride mg	2.55
Impinger Fluoride mg:	0.75
Filter Fluoride mg:	5.30
Total Fluoride mg:	8.60

**Particulate**

Probe Wash Particulate mg	9.4
Filter Particulate mg:	39.8
Total Particulate mg:	49.2

## Calibrations

# IMC Phosphates Company

## Post Test Dry Gas Meter Calibration Form

Facility: New Wales

Plant: Multifos A & B Kiln

Meter Box Number: 3187

Date: 11/6/00

Barometric Pressure, Pb: 30.08

Standard Test Meter Number: 693497


Delta H	Gas Volume				Temperature, F				Time min.	Yi	Delta H@
	Standard Meter		Dry Gas Meter		Standard Meter		Dry Gas Meter				
	Initial	Final	Initial	Final	Inlet	Outlet	Inlet	Outlet			
1.1	237.29	246.3	267.91	277.12	76	76	84	77	15	0.9839	1.7078
1.1	246.3	255.25	277.12	286.16	76	76	91	79	15	1.0040	1.7165
1.1	255.25	264.07	286.16	295.09	78	78	94	81	15	1.0024	1.7726
Delta H to be at intermediate setting from test.									Tolerance	+/- 0.02	+/- 0.15
Test Performed at Vacuum: <u>7</u> in Hg									Deviation	0.0129	0.0403
									Average	0.997	1.732

Percentage Difference in Yi Pretest vs Post Test. 0.02 %

Pretest Yi Value 0.9969

Percentage Difference cannot exceed 5%

Person Performing Calibration:

  
 \_\_\_\_\_  
 Flint Barnes

# IMC-Phosphates Company

## Dry Gas Meter Calibration Form

Meter Box Number: 3187

Date: 02/08/00

Barometric Pressure, Pb: 30.25

Standard Test Meter Number: 693497

Delta H	Gas Volume				Temperature, F				Time min.	Yi	Delta H@
	Standard Meter		Dry Gas Meter		Standard Meter		Dry Gas Meter				
	Initial	Final	Initial	Final	Inlet	Outlet	Inlet	Outlet			
0.5	60.271	65.638	43.039	48.515	70	71	75	74	14	0.9863	1.8772
1	65.969	71.027	48.852	53.982	70	71	75	74	9	0.9910	1.7470
1.5	71.662	77.16	54.624	60.198	70	71	80	74	8	0.9948	1.7442
2	77.793	83.385	60.736	66.395	70	71	81	74	7	0.9964	1.7196
3	84.125	90.099	67.238	73.163	70	71	81	74	6	1.0142	1.6604
4	91.448	97.122	74.617	80.318	70	71	80	75	5	0.9987	1.7043
									Tolerance	+/- 0.02	+/- 0.15
									Deviation	0.0173	0.1351
									Average	0.9969	1.742

Person Performing Calibration:

Flint Barnes

Flint Barnes

# IMC-PHOSPHATES COMPANY

Environmental Department

## Nozzle Size Calibration

Facility: New Wales

Plant: Muller OS Plant T

Date: 11/2/00

Nozzle ID	Run Number	D-1	D-2	D-3	Delta	Average
.190	1, 2, 3	.190	.190	.190	.000	.190

D-1, D-2, D-3

Measurement of Diameter at Three locations  
Three Decimal Places required.

Delta

Maximum Difference in a D-1, D-2, D-3.  
Value not to exceed 0.004.

Average

Average of D-1, D-2, D-3.  
Three Decimal Places required.

Person Performing Calibration:

*Herb D...*

IMC Phosphates Company

ENVIRONMENTAL Department

THERMOMETER CALIBRATIONS

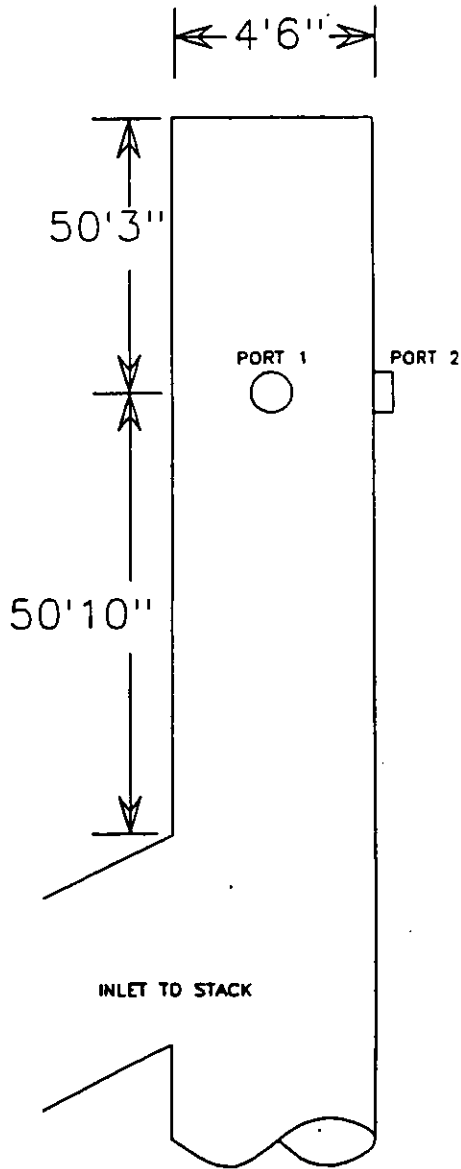
Calibrated BY

*Flint Barnes*  
FLINT BARNES

DATE	ID NO.	TYPE	RANGE	ICE BATH			TEPID WATER			BOILING WATER		
				STD THERM	TEMP	% or o DIFF	STD THERM	TEMP	% or o DIFF	STD THERM	TEMP	
6/26/00	OM1	Them	Dig	38	38	0	62	62	0	210	210	0
6/26/00												
6/26/00	OM2	Them	Dig	38	38	0	62	62	0	210	210	0
6/26/00												
6/26/00	OM3	Them	Dig	38	38	0	62	62	0	210	210	0
6/26/00												
6/26/00	OM4	Them	Dig	34	34	0	62	62	0	210	210	0
6/26/00												
6/26/00	PS3	T/T	Dig	34	34	0	72	72	0	212	212	0
6/26/00												
6/26/00	PSA (5)	T/T	Dig	34	34	0	68	68	0	210	210	0
6/26/00												
6/26/00	PSB (5)	T/T	Dig	34	34	0	70	69	1	210	210	0
6/26/00												
6/26/00	PSC (5)	T/T	Dig	34	34	0	70	70	0	210	210	0
6/26/00												
6/26/00	PSB-OLD	T/T	Dig	34	34	0	72	72	0	210	210	0
6/26/00												
6/26/00	PS6.5	T/T	Dig	34	34	0	68	68	0	212	212	0
6/26/00												
6/26/00	PG3	T/T	Dig	34	34	0	72	72	0	210	210	0
6/26/00												
6/26/00	PG5	T/T	Dig	34	34	0	70	70	0	212	212	0
6/26/00												
6/26/00	E1	T/T	Dig	34	34	0	68	68	0	0		0
6/26/00												
6/26/00	E2	T/T	Dig	34	34	0	68	68	0	0		0
6/26/00												
6/26/00	E3	T/T	Dig	34	34	0	70	70	0	0		0
6/26/00												
6/26/00	E4	T/T	Dig	34	34	0	68	68	0	0		0
6/26/00												
6/26/00	HB1	T/T	Dig	0	0	0	70	70	0	212	212	0
6/26/00												
6/26/00	HB2	T/T	Dig	0	0	0	70	70	0	210	210	0
6/26/00												
6/26/00	HB3	T/T	Dig	0	0	0	72	72	0	212	212	0
6/26/00												
6/26/00	HB4	T/T	Dig	0	0	0	70	70	0	210	210	0
6/26/00												
6/26/00	PS 6 NE	T/T	Dig	34	34	0	68	68	0	210	210	0
								PS	STEEL	PROBE		
								PG	GLASS	PROBE		
								E	EXIT	ADAPTOR		
								HB	HOT	BOX		
								Them	Digital	Thermometer		
								T/T	Thermometer-Them-Couple			

## Stack Diagram and Sampling Locations

SAMPLE PORT LOCATION  
 IMC NEW WALES OPERATIONS  
 MULTIFOS PLANT



POINT NO.	INCHES INSIDE STACK WALL
1	2.4
2	7.9
3	16.0
4	38.0
5	46.1
6	51.6

PREPARED:	TITLE: TRAVERSE POINT LOCATION		
DATE:		LOCATION: NEW WALES	FILE:
REVISED:		SCALE:	DRAWING NO.:



**Method 1**  
**Sample and Velocity Traverse Selection**

Facility: New Wales  
 Plant: Multifos Plant  
 Company ID: 1100  
 FDEP AIRS & Pt. ID: 1050059 & 036

**Points for Circular Stacks**

Stack Diameter 54 inches  
 Distance Upstream of Disturbance 50.25 feet  
 Upstream Diameters 11.17  
 Distance Downstream of Disturbance 50.83 feet  
 Downstream Diameters 11.30  
 Downstream/Upstream Ratio 11.30 11.17

Number of Traverse Points 12 pts  
 Number of Ports 2  
 Number of Points per Port 6  
 Number of Points on Diameter 6  
 Traverse Distance Offset 0 inches

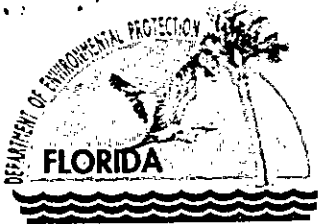
**Particulate Traverses**

> 7/1.75	> 6/1.5	> 5/1.25	< 5/1.25
12	16	20	24

**Non Particulate Traverses**

>6/1.5	< 6/1.5
12	16

Point Number	Distance (inches)	Distance w/offset	Distance %
1	2.35	2.35	4.36
2	7.91		14.64
3	15.98	15.98	29.59
4	38.02	38.02	70.41
5	46.09	46.09	85.36
6	51.65	51.65	95.64
7	0.00	0.00	0.00
8	0.00	0.00	0.00
9	0.00	0.00	0.00
10	0.00	0.00	0.00
11	0.00	0.00	0.00
12	0.00	0.00	0.00



Jeb Bush  
Governor

# Department of Environmental Protection

Southwest District  
3804 Coconut Palm Drive  
Tampa, Florida 33619

David B. Struhs  
Secretary

## NOTICE OF AUTHORIZATION

### VIA CERTIFIED MAIL

Mr. M.A. Daigle  
General Manager  
New Wales Plant  
IMC Phosphates Company  
P.O. Box 2000  
Mulberry, FL 33860-1100

**RECEIVED**

OCT 18 2000

BUREAU OF AIR REGULATION

Re: Request for Test Authorization Dated October 2, 2000  
New Wales Plant  
Emissions Units 036, 074, 075, 076  
Permits: 1050059-024-AC/PSD-FL-244 and 1050059-014-AV

Dear Mr. Daigle:

On October 3, 2000, the Department received your request for an authorization to perform a test project involving A, B, and C Kilns. Specifically, you requested to be able to operate either A or B Kiln as a dryer. The dried material from either A or B Kiln (dryer) would be fed to both C Kiln and A or B Kiln (not being used as the dryer). IMC indicated that the purpose of this test project was to improve and stabilize the operation of C Kiln.

IMC described that this test project will require that A or B Kiln (dryer) process 30-40 TPH as a dryer rather than the maximum permitted throughput rate of 15 TPH. IMC also indicated that the A or B Kiln (dryer) will be operated at a lower temperature of 190°F. C Kiln and A or B Kiln (not being used as the dryer) will operate within the permitted rates of 25 TPH and 15 TPH, respectively. Therefore, resulting in a net emissions decrease for all three kilns.

Based upon the information provided by IMC, the Department hereby grants your request for a test authorization with the following stipulations. Note that this authorization is only applicable to this plant and test project. Also, this authorization does not allow the permittee to circumvent any air pollution control device, or allow the emission of air pollutants without the applicable air pollution control device operating properly [Rule 62-210.650, F.A.C.].

"More Protection, Less Process"

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1. The length of this test project shall be no longer than 60 days after the receipt of this authorization. IMC shall notify the Department in writing of the start date of this test project.
2. IMC shall maintain records of material throughput for A, B, and C Kilns, mixed feed preparation section, and product handling operations. IMC shall record and maintain records of the operating temperature of A, B, and C Kilns.
3. IMC shall not exceed the permitted total annual production rate of A and B Kilns nor the annual input rate to C Kiln.
4. IMC shall perform compliance testing of A, B, and C Kilns for the following pollutants after the Kiln has reached stable operating conditions, but no later than 21 days after first operation in this mode.
  - a. A and B Kilns: Particulate Matter (PM), Fluorides, Visible Emissions (VE);
  - b. C Kiln: Particulate Matter (PM), Fluorides, Sulfur Dioxide (SO<sub>2</sub>), Visible Emissions (VE).
5. IMC shall notify the Department, prior to the date that the compliance test will begin, of the date, time, and place of each compliance test and test contact person who will be responsible for coordinating the compliance test.
6. IMC shall perform this compliance test in accordance with the test methods indicated in permits 1050059-024-AC/PSD-FL-244 and 1050059-014-AV.
7. IMC shall file a report with the Department on the results of such test.
  - a. The required test report shall be filed with the Department as soon as practical but no later than 10 calendar days after the last sampling run of each test is completed.
  - b. The report shall provide sufficient detail on the emissions unit tested (at a minimum, the "Project", "Facility ID" and "Emissions Unit ID"), the test procedures used to allow the Department to determine if the test report was properly conducted and the test results properly computed. Testing procedures shall be consistent with the requirements of Rule 62-297.310(7), F.A.C.
8. Failure to submit the rates and actual operating conditions in the test report may invalidate the test and fail to provide reasonable assurance of compliance. [Rules 62-297.310(8) and 62-4.070(3), F.A.C.]
9. IMC may not operate this facility under the conditions of this test project beyond the 60 days indicated in item 1. If IMC decides to operate under such conditions, IMC must apply for a permit modification to all applicable permits including 1050059-024-AC/PSD-FL-244 and 1050059-014-AV.

A person whose substantial interests are affected by this authorization may petition for an administrative proceeding (hearing) under 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 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 filed within 21 days of receipt of this notice. 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, F.A.C.

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 action; and
- (f) A statement of 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, F.A.C.

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 authorization. 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.

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 EPA and by the person under the Clean Air Act unless and until Administrator separately approves any variance or waiver in accordance with the procedures of the federal program.

This "Authorization" is final and effective on the date filed with the Clerk of the Department unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57, F.S. or unless a request for an extension of time in which to file a petition is filed within the time specified for filing a petition. Upon timely filing of a petition or a request for an

IMC Phosphates Company  
New Wales Plant  
A, B, and C Kilns

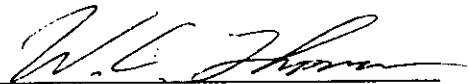
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extension of time to file the petition, this authorization will not be effective until further Order of the Department.

Any party to the Order (Authorization) has the right to seek judicial review of the Order pursuant to Section 120.68, F.S., by the filing of 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, Douglas Building, 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 of Appeal must be filed within 30 days after this Order is filed with the Clerk of the Department.

If you have any questions, please call Ann Quillian, P.E. of my staff at (813)744-6100 x 117.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



W.C. Thomas, P.E.  
District Air Program Administrator  
Southwest District

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF AUTHORIZATION was sent to the addressee by certified mail and all copies were sent by regular mail before the close of business on OCT 13 2000 to the listed persons, unless otherwise noted.

Clerk Stamp

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

  
\_\_\_\_\_  
(Clerk)

OCT 13 2000  
\_\_\_\_\_  
(Date)

cc: Al Linero, FDEP, NSR

*John Reynolds, NSE*