

Department of Environmental Protection

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

Colleen M. Castille Secretary

September 13, 2006

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Thomas W. Fuchs Plant Manager Mosaic Fertilizer, LLC New Wales Facility P. O. Box 2000 Mulberry, Florida 33860

Re:

DEP File Number 1050059-053-AC

Changes to Previously Established Federally Enforceable Conditions DAP Plant No. 2 Minimum dP Requirement for Venturi Scrubbers

Incompleteness Items

Dear Mr. Fuchs:

The department received your application for an air construction (AC) permit on August 14, 2006. The application is for changes to previously established federally enforceable conditions. The request contained nine (9) specific items originating from prior AC permits. Eight of the 9 items will be processed under File No. 1050059-052-AC. The remaining item will be processed independently as File Number 1050059-053-AC.

After review, it has been determined that the request for this item is incomplete. In order to continue processing your application for this item, the department will need the additional information requested below. Should your response to any of the below items require new calculations, please submit the new calculations, assumptions, reference material and appropriate revised pages of the application form.

Item 2. in the request was to delete the minimum dP requirement for the venturi scrubbers at the DAP Plant No. 2. Permit No. 1050059-020-AC/PSD-FL-241 contained this requirement as part of the BACT that all venturi scrubbers for each train be operated at a minimum pressure drop of 15 inches of water.

Test data was provided as part of the application from 20 tests conducted on the emissions units between 2001 and 2006. The affected emissions units are:

-045	DAP Plant No. 2 – East Train
-046	DAP Plant No. 2 – West Train
-047	DAP Plant No. 2 - West Product Cooler
-056	DAP Plant No. 2 – East Train Cooler

Tests performed near the minimum pressure drop of 15 inches of water show that emissions are closer to the standard. For example, the test performed on 2/24/05 on particulate matter (PM) emissions from the *DAP Plant No. 2 – East Train Cooler* indicated 4.9 lb/hr hour which

+ 	(Domestic Mail Only;	No Insurance Coverage Provided)	,
+ E 0		visit our website at www.usps.com ₀	
т Т	Postage \$		_
	Certified Fee	Postmark	
	Return Receipt Fee (Endorsement Required)	Here	
년 무	Restricted Delivery Fee (Endorsement Required)		
; ເ ງ	Total Postage & Fees \$		
	Sent To Mr. Thomas W. Fuo	chs, Plant Manager	
, [2	Street, Apt. No.; or PO Box No. P. O.	Box 2000	
	City State ZIP+4 Mulberry, Florida	a 33860	
	PS Form 3800, June 2002	See Reverse for Instruct	ions

Re: DEP File Number 1050059-053-AC Page 2 of 2

was 82% of the 6.1 lb/hr standard while the venturi scrubber's dP was 15.7 inches. The test run on 10/30/02 on PM emissions from the *DAP Plant No. 2 – East Train* indicated 5.2 lb/hr hour which was 77% of the 4.0 lb/hr standard while the R/G venturi scrubber's dP was 18.8 inches. Review of some of the test data shows that as the dP in the venturi scrubbers increase, emissions are lowered. An increase in dP shows greater scrubber efficiency resulting in lower emissions. The specification of the minimum dP was part of the original BACT determination for reasonable assurance of compliance. Based on the test data, the dP requirement in fact does provide reasonable assurance of compliance with the PM standards. The MACT allows a range to be established during testing to be used for a control device's operating parameters. This data suggests that actual emissions could increase by removing the minimum pressure drop and going to a MACT range. The MACT regulates fluoride emissions, whereas this requirement restricts the same scrubbers' operations for PM emissions. The MACT would establish a 20% range around scrubber parameters established during successful compliance testing. Please note that BACT/PSD requirements supersede MACT requirements.

More information is needed to properly evaluate this request.

- 1. Do the MACT ranges include the minimum pressure drop of 15 inches of water?
- 2. Will actual emissions increase by removing the minimum pressure drop and going to a MACT range? A special test could be conducted to evaluate the impact on actual emissions in going to a MACT range.

The department will resume processing your application after receipt of the requested information. Rule 62-4.050(3), F.A.C. requires that all applications for a department construction permit must be certified by a professional engineer registered in the State of Florida. This requirement also applies to responses to department requests for additional information of an engineering nature. For any material changes to the application, please include a new certification statement by the authorized representative. You are reminded that Rule 62-4.055(1), F.A.C. now requires applicants to respond to requests for information within 90 days or provide a written request for an additional period of time to submit the information.

If you should have any questions, please contact me at 850/921-9532.

Sincerely,

Scott M. Sheplak, P.É. Air Permitting South Section Bureau of Air Regulation

Mail Station #5505

Scott.Sheplak@dep.state.fl.us

copy to: Cindy Zhang-Torres, P.E. SWD, via e-mail
Charles David Turley, P.E., via e-mail <u>David.Turley@mosaicco.com</u>
John B. Koogler, Ph.D, P.E., via e-mail <u>jkoogler@kooglerassociates.com</u>
Pradeep Raval, via e-mail <u>praval@kooglerassociates.com</u>

From:

Turley, Charles D - New Wales [David.Turley@mosaicco.com]

Sent:

Thursday, September 14, 2006 10:55 AM

Subject:

Read: Mosaic Fertilizer, LLC - New Wales Facility #1050059-053-AC - Incompleteness Items

Attachments:

ATT581770.txt



ATT581770.txt (307 B)

Your message

To:

Zhang-Torres; Turley, Charles D - New Wales;

jkoogler@kooglerassociates.com; Pradeep Raval

Cc:

Sheplak, Scott; Linero, Alvaro

Subject: Mosaic Fertilizer, LLC - New Wales Facility #1050059-053-AC - Incompleteness

Items

Sent:

Wed, 13 Sep 2006 14:02:28 -0400

was read on Thu, 14 Sep 2006 07:58:20 -0400

From:

System Administrator

To:

praval@kooglerassociates.com; jkoogler@kooglerassociates.com

Sent:

Wednesday, September 13, 2006 2:04 PM

Subject:

Delivered Mail System Delivery Report

Your message

To:

Zhang-Torres; David.Turley@mosaicco.com; jkoogler@kooglerassociates.com; Pradeep Raval

Cc:

Sheplak, Scott; Linero, Alvaro

Subject:

Mosaic Fertilizer, LLC - New Wales Facility #1050059-053-AC - Incompleteness Items

Sent:

9/13/2006 2:02 PM

was delivered to the following recipient(s):

praval@kooglerassociates.com on 9/13/2006 2:04 PM jkoogler@kooglerassociates.com on 9/13/2006 2:04 PM

From:

Exchange Administrator

Sent:

Wednesday, September 13, 2006 2:03 PM

To:

Friday, Barbara

Subject:

Delivery Status Notification (Relay)

Attachments:

ATT125983.txt; Mosaic Fertilizer, LLC - New Wales Facility #1050059-053-AC -

Incompleteness Items





ATT125983.txt (292 B) Mosaic Fertilizer, LLC - New W...

This is an automatically generated Delivery Status Notification.

Your message has been successfully relayed to the following recipients, but the requested delivery status notifications may not be generated by the destination.

David.Turley@mosaicco.com

From:

System Administrator

To:

Zhang-Torres; Linero, Alvaro

Sent:

Wednesday, September 13, 2006 2:03 PM

Subject:

Delivered: Mosaic Fertilizer, LLC - New Wales Facility #1050059-053-AC - Incompleteness

Items

Your message

To:

Zhang-Torres; 'David.Turley@mosaicco.com'; 'jkoogler@kooglerassociates.com'; 'Pradeep Raval'

Cc:

Sheplak, Scott; Linero, Alvaro

Subject:

Mosaic Fertilizer, LLC - New Wales Facility #1050059-053-AC - Incompleteness Items

Sent:

9/13/2006 2:02 PM

was delivered to the following recipient(s):

Zhang-Torres on 9/13/2006 2:03 PM Linero, Alvaro on 9/13/2006 2:03 PM

Sheplak, Scott

file

From:

Friday, Barbara

Sent:

Wednesday, September 13, 2006 2:02 PM

To:

Zhang-Torres; 'David.Turley@mosaicco.com'; 'jkoogler@kooglerassociates.com'; 'Pradeep Raval'

Cc:

Sheplak, Scott; Linero, Alvaro

Subject:

Mosaic Fertilizer, LLC - New Wales Facility #1050059-053-AC - Incompleteness Items

Attachments: ThomasFuchs-MosaicNewWales.pdf



Jeb Bush Governor

Department of

Environmental Protection

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

Colleen M. Castille Secretary

September 13, 2006

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"Mare Protection, Less Process"

Re: DEP File Number 1050059-053-AC Page 2 of 2

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If you should have any questions, please contact me at 850/921-9532.

Sincerely,

Scott M. Sheplak, P.É.

Air Permitting South Section Bureau of Air Regulation

Stm. Seple

Mail Station #5505

Scott.Sheplak@dep.state.fl.us

copy to: Cindy Zhang-Torres, P.E. SWD, via e-mail
Charles David Turley, P.E., via e-mail <u>David Turley@mosaicco.com</u>
John B. Koogler, Ph.D, P.E., via e-mail <u>jkoogler@kooglerassociates.com</u>
Pradeep Raval, via e-mail praval@kooglerassociates.com

Sheplak, Scott

From:

Turley, Charles D - New Wales [David.Turley@mosaicco.com]

Sent:

Wednesday, August 30, 2006 1:48 PM

To:

Sheplak, Scott; Linero, Alvaro

Cc:

Ahrens, Dean - New Wales; Pradeep Raval

Subject:

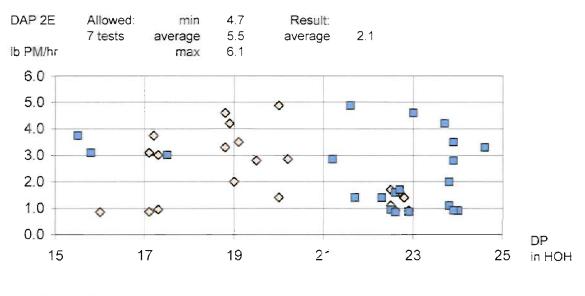
New Wales DAP 2 pressure drops

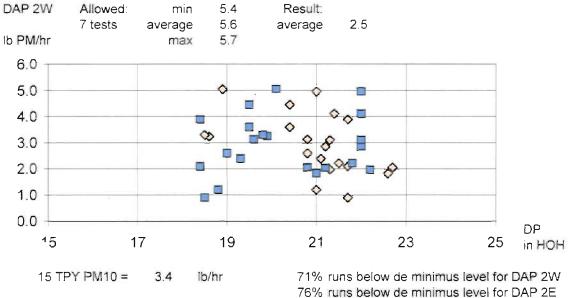
Attachments: DAP2 dps.pdf

This shows that the PM emissions aren't strongly related to the Venturi pressure drops. Because the PM limits are so stringent, any changes would not be significant. Please advise if you need any additional information.

Comparison of Individual Run Venturi Pressure Drops vs. Tested Emissions

(Diamonds are RGCV Venturis and Squares are Dryer Venturis)







GAINESVILLE, FLORIDA 32609 352/377-5822 • FAX/377-7158

RECEIVED

KA 124-03-06

AUG 14 2006

August 11, 2006

BUREAU OF AIR REGULATION

Mr. A. L. Linero, P.E. Florida Department of **Environmental Protection** Twin Towers Office Building 2600 Blair Stone Road Tallahassee, FL 32399-2400

Subject:

Construction Permit Application

Mosaic Fertilizer, LLC - New Wales Facility

Facility No. 1050059

Dear Mr. Linero:

Enclosed are four copies of an application for a construction permit for the above referenced facility. The request is for a revision to several permit conditions previously discussed with Scott Sheplak.

If you have any questions, please call me.

Very truly yours,

KOOGLER & ASSOCIATES

Pradeep Raval

Par. Encl.

C: C. D. Turley, Mosaic

MIMER PLANT SUD



Department of Environmental Protection

Division of Air Resources Management AUG 1 4 2006

APPLICATION FOR AIR PERMIT - TITLE V SQURGE AIR REGULATION

See Instructions for Form No. 62-210.900(1)

I. APPLICATION INFORMATION

14	Identification of Facinity				
1.	. Facility Owner/Company Name: Mosaic Fertilizer, LLC				
2.	Site Name: New Wales Facility				
3.	Facility Identification Number: 105	0059			[] Unknown
4.	Facility Location:				-
	Street Address or Other Locator: 30	095 High	ıway	640	
	City: Mulberry C	ounty: Po	olk		Zip Code: 33860
5.	Relocatable Facility?		6. E	xisting Per	mitted Facility?
	[] Yes [X] No		[.	X] Yes	[] No
<u>A</u> r	oplication Contact				
1.	Name and Title of Application Con-	tact: Pra	deep	Raval, Cor	nsultant
2.	Application Contact Mailing Addre	ss:			
	Organization/Firm: Koogler & Ass	ociates			
	Street Address: 4014 NW 13 th Stre	et			
	City: Gainesville	Sta	te: FI	ı	Zip Code: 32609
3.	Application Contact Telephone Nur	nbers:			
	Telephone: (352) 377-5822 Fax: (352) 377-7158				377-7158
<u>A</u> p	Application Processing Information (DEP Use)				
1.	Date of Receipt of Application:	(8-14	1-06	
2.	2. Permit Number: 1050059-053-AC; 1050059-053-AC				
3.	PSD Number (if applicable):				,
4.	Siting Number (if applicable):				

DEP Form No. 62-210.900(1) - Form

Purpose of Application

Air Operation Permit Application

This Application for Air Permit is submitted to obtain: (Check one) Initial Title V air operation permit for an existing facility which is classified as a Title V source. Initial Title V air operation permit for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source. Current construction permit number: 1 Title V air operation permit revision to address one or more newly constructed or modified emissions units addressed in this application. Current construction permit number: Operation permit number to be revised: Title V air operation permit revision or administrative correction to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. (Also check Air Construction Permit Application below.) Operation permit number to be revised/corrected: Title V air operation permit revision for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal. Operation permit number to be revised: Reason for revision: Air Construction Permit Application This Application for Air Permit is submitted to obtain: (Check one) [X] Air construction permit to construct or modify one or more emissions units. Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

DEP Form No. 62-210.900(1) - Form

Effective: 2/11/99

Air construction permit for one or more existing, but unpermitted, emissions units.

Owner/Authorized Representative or Responsible Official

	1. Name and Title of Owner/Authorized Representative or Responsible Official: Thomas W. Fuchs, Plant Manager					
2.	Organization/Firm: Mosaic Fertilizer, LLC Street Address: P.O. Box 2000					
3.	Owner/Authorized Representative or Responsible Official Telephone Numbers:					
٠.	Telephone: (863) 428-2500 Fax: () -					
4.						
	Signature Date					
* A	Attach letter of authorization if not currently on file.					
<u>Pro</u>	ofessional Engineer Certification					
1.	Professional Engineer Name: John B. Koogler, Ph.D., P.E. Registration Number: 12925					
2.	Professional Engineer Mailing Address: Organization/Firm: Koogler & Associates Street Address: 4014 NW 13th Street City: Gainesville State: FL Zip Code: 32609					
3.	Professional Engineer Telephone Numbers:					
	Telephone: (352) 377 - 5822 Fax: (352) 377 - 7158					

DEP Form No. 62-210.900(1) - Form Effective: 2/11/99

4. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein*, that:

- (1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and
- (2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain a Title V source air operation permit (check here [], if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [X], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit analywith all provisions contained in such permit.

Signature

Date

3/10/2006

(seal)

* Attach any exception to certification statement.

Scope of Application

Emissions		Permit	Processing
Unit ID	Description of Emissions Unit	Type	Fee
	(Arranged in order of discussion)		
048	30% Clarification Area (Area 10)	ACIF	0
045	DAP Plant No. 2 – East Train	ACIF	0
046	DAP Plant No. 2 – West Train	ACIF	0
056	DAP Plant No. 2 – East Train Cooler	ACIF	0
029	029 #1 Fertilizer Rail/Truck Shipping	ACIF	0
037	037 Fertilizer Truck Loadout No. 2	ACIF	0
041	041 Fertilizer Truck Loadout No. 3	ACIF	0
043	043 Fertilizer Rail Loadout No. 2	ACIF	0
059	059 Fertilizer Rail Loadout No. 3	ACIF	0
060-080	Molten Sulfur System	ACIF	0
081	Rental Boiler	ACIF	0
		•	

Application Processing Fee

Check one: I	Γ.	Attached - Amount: \$	ГХ	1 N	ot A	pplicable
Chook one.	L.	1 Ittuched 1 Imount. 4	14%	1 1	0111	ppneadi

DEP Form No. 62-210.900(1) - Form

Construction/Modification Information

1. I	Description of Proposed Project or Alterations: See Attachment 1
2 [Projected or Actual Date of Commencement of Construction:
3. F	Projected Date of Completion of Construction:
App	lication Comment
The	information submitted herein is in the format discussed with FDEP.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1.	Facility UTM Coordinates:					
	Zone: 17	East (km):	39	6.6 Nort	th (km): 3078.9	
2.	Facility Latitude/Lo	ongitude: NA			•	
	Latitude (DD/MM/	SS):		Longitude (DD/MM	M/SS):	
3.	Governmental	4. Facility Status	5.	Facility Major	6. Facility SIC(s):	
	Facility Code:	Code:		Group SIC Code:		
	0	A	28		2874	
				<u>, </u>		
7.	Facility Comment (limit to 500 characters):				
		•				
	•					
Fac	oility Contact				•	

Facility Contact

1.	Name and Title of Facility Contact:						
	Dean Ahrens, Env. Superintendent						
						•	•
2.	Facility Contact Mailing Address:						
	Organization/Firm: Mosaic Fertilizer	, LLC			•		
	Street Address: P.O. Box 2000						
	City: Mulberry	State:	FL		Zip Code: 3	3860	
3.	Facility Contact Telephone Numbers:						
	Telephone: Telephone: (863) 428-	2500	Fax: ()	-		
	-						

DEP Form No. 62-210.900(1) - Form

Facility Regulatory Classifications

Check all that apply:

1. [] Small Business Stationary Source? [] Unknown				
2. [X] Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?				
3. [] Synthetic Minor Source of Pollutants Other than HAPs?				
4. [X] Major Source of Hazardous Air Polluta	ents (HAPs)?			
5. [] Synthetic Minor Source of HAPs?				
6. [X] One or More Emissions Units Subject	to NSPS?			
7. [X] One or More Emission Units Subject to	NESHAP?			
8. [] Title V Source by EPA Designation?				
9. Facility Regulatory Classifications Commer	nt (limit to 200 characters):			
List of Applicable Regulations				
THE ALTERNATIONS				
FDEP Core List, Rules 62-4, -204,-210,-212,				
-296,-297, FAC; FS 120,403.				
	·			
·				
·				

DEP Form No. 62-210.900(1) - Form Effective: 2/11/99

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested E	missions Cap	4. Basis for Emissions	5. Pollutant Comment
Limited	Classii.	lb/hour	tons/year	Cap	Comment
PM/PM10	A				
SO2	A				
NOX	A				
SAM	A				
FL	A				
,					
					_
	-				
_				_	
					-
				_	
	-			-	

DEP Form No. 62-210.900(1) - Form Effective: 2/11/99

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1.	Area Map Showing Facility Location:		<u> </u>	_		
	[] Attached, Document ID:	_ [_] No	t Applicable	[X]	Waiver Requested
2.	Facility Plot Plan:					
	[] Attached, Document ID:	[] No	t Applicable	[X]	Waiver Requested
3.	Process Flow Diagram(s):					
	[] Attached, Document ID:	_[] No	t Applicable	[X]	Waiver Requested
4.	Precautions to Prevent Emissions of Un	ncon	fined P	articulate M	atter:	
	[] Attached, Document ID:	_[] Nó	t Applicable	[X]	Waiver Requested
5.	Fugitive Emissions Identification:					,
	[] Attached, Document ID:	_ [] No	t Applicable	[X]	Waiver Requested
6.	Supplemental Information for Construc	ction	Permi	t Application	1:	
I	[X] Attached, Document ID: Att. 1	Γ	1 No	t Annlicable		
	. Attached, Document ID. Att. 1		J NO	т Аррпсиотс		
Th	Supplemental Requirements Comment ere are no changes from the informat rmit application.	:				FDEP as part of the
Th	Supplemental Requirements Comment ere are no changes from the informat	:				FDEP as part of the
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DEP Form No. 62-210.900(1) - Form

Additional Supplemental Requirements for Title V Air Operation Permit Applications

8. List of Proposed Insignificant Activities:
[] Attached, Document ID: [X] Not Applicable
9. List of Equipment/Activities Regulated under Title VI:
[] Attached, Document ID:
[] Equipment/Activities On site but Not Required to be Individually Listed
[X] Not Applicable
10. Alternative Methods of Operation:
[] Attached, Document ID: [X] Not Applicable
11. Alternative Modes of Operation (Emissions Trading):
[] Attached, Document ID: [X] Not Applicable
12. Identification of Additional Applicable Requirements:
[] Attached, Document ID: [X] Not Applicable
13. Risk Management Plan Verification:
[] Plan previously submitted to Chemical Emergency Preparedness and Prevention
Office (CEPPO). Verification of submittal attached (Document ID:) or
previously submitted to DEP (Date and DEP Office:)
[] Plan to be submitted to CEPPO (Date required:)
[X] Not Applicable
14. Compliance Report and Plan:
[] Attached, Document ID: [X] Not Applicable
15. Compliance Certification (Hard-copy Required):
[] Attached, Document ID: [X] Not Applicable

ATTACHMENT 1

Additional Construction Permit Items for Mosaic New Wales Permit File Nos. 1050059-045-AV and 1050059-042-AC

The following items are presented in the sequence they were recently discussed with FDEP, to facilitate the review. The section references are from a previous "draft permit".

Item 1.

Subsection R

It is requested that Emission Unit (EU) ID No. 048 Uranium Recovery System – Acid Clean Up be renamed "30% Clarification Area (Area 10)" in the permit.

Further, it is requested that the particulate matter (PM) emissions limitation and the annual testing requirement for PM emissions be deleted. The PM requirements are from a BACT determination on the Uranium Recovery Process, which has been shutdown. The equipment is now used in the phosphoric acid clarification process. As there is no applicable PM standard, the limitation is inappropriate. A copy of the old BACT determination is presented in Attachment 2.

(Original reference, permit AC53-6084)

Item 2.

Subsection G

Emission Units ID Nos.:

045 DAP Plant No. 2 – East Train

046 DAP Plant No. 2 – West Train

056 DAP Plant No. 2 – East Train Cooler

It is requested that the requirement to maintain a minimum pressure drop of 15 inches of water for the venturi scrubbers be deleted from specific conditions since the MACT requirements address this issue. The MACT rule requires more extensive monitoring and operating requirements for the scrubbers. The test data, presented in Attachment 3, indicates compliance on a consistent basis with the scrubber operating in the required range that would apply under MACT. Also included in Attachment 3 is an excerpt from the BACT determination discussion regarding the pressure drop.

(Original reference, permit 1050059-020-AC)

Items 3 and 4

Subsection N EU. 029 #1 Fertilizer Rail/Truck Shipping

Subsection Q Emission Units ID Nos.: 037 Fertilizer Truck Loadout No. 2 041 Fertilizer Truck Loadout No. 3 043 Fertilizer Rail Loadout No. 2 059 Fertilizer Rail Loadout No. 3

It is requested that the shipping units be classified as an insignificant activity and allow removal of the emission unit control devices as there will be application of a dust suppressant at all times.

Per discussions with FDEP, the available VE test results are presented in Attachment 4. The following requested statement is submitted with the PE certification:

"The above units qualify as insignificant pursuant to Rule 62-213.430(6), F.A.C."

FDEP has already made this determination for fertilizer loadout units at several similar facilities; and, it is anticipated that FDEP will list the reclassified emissions units, with the application of a dust suppressant at all times, in the Appendix I-1.

Item 5

Subsection W

Emission Unit ID No. 080 Molten Sulfur Truck Loading Station

It is requested that the emissions unit description in the permit reflect that only one loading station was constructed.

(Original reference, permit 1050059-034-AC, for Items 5, 6 and 7)

Item 6

Subection W

Emission Units ID Nos.:

060 7,500 Ton Rail Storage Molten Sulfur Storage Tank

062 5,000 Ton Molten Sulfur Storage Tank

063 1,500 Ton Truck Unloading Pit, Sulfur Pit (North)

064 350 Ton Truck Unloading Pit, Sulfur Pit (South)

064 800 Ton Railcar Unloading Pit

066 200 Ton Molten Sulfur Transfer Pit

067 1,500 Ton Truck Unloading Pit, Sulfur Pit Front Vent

068 1,500 Ton Truck Unloading Pit, Sulfur Pit Rear Vent

069 350 Ton Truck Unloading Pit, Sulfur Pit Vent

080 Molten Sulfur Truck Loading Station (amended as above Item)

It is requested that the VE testing be required once every 5 years (prior to renewal), consistent with Rule 62-297, FAC requirements for minor sources.

Item 7

Subection W

Emission Units ID Nos.:

064 800 Ton Railcar Unloading Pit

066 200 Ton Molten Sulfur Transfer Pit

080 Molten Sulfur Truck Loading Station (amended as above Item)

It is requested that the permit condition be revised to require sulfur deposition monitoring for a period of two years from the date of commencement of sulfur handling. As indicated in the January 29, 2004 letter from Koogler & Associates (submitted to you recently), the monitoring began on March 1, 2004, soon after all of the construction associated with this project was completed. The monitoring report, presented in Attachment 5, indicates insignificant sulfur deposition.

Item 8

Subection AA

Emission Units ID No.: 081 Rental Boiler

It is requested that the rental boiler be deleted from the permit as it has been removed from the site and will not be replaced.

ATTACHMENT 2 BACT DETERMINATION FOR URANIUM RECOVERY PLANT

State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

	And/ p Other Than The Addressee
ro:	Loctn.:
Го:	Loctn.:
ro:	Loctn.:
rom:	Date:

TO: District, Subdistrict and Local Program Air Engineer

FROM: Mark Hodges, BAQM

DATE: September 22, 1980

SUBJ: B.A.C.T. as determined for IMC - New Wales'

Uranium Recovery Plant, Polk County, Florida.

Attached find one copy of the above subject BACT as determined by the Florida Department of Environmental Regulation, Bureau of Air Quality Management.

Should you have any questions regarding this determination, please call me at (904) 488-1344 or Suncom 278-1344.

MH:dav

OCT 3 1980
SOUTHWEST DISTRICT

State of Florida

Sey * 1

DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

	And/OL	Other Than The Addresses
ro:		Loctn.:
To:		Loctn.:
o:		Loctn.:
rom:		Date:

TO: Jacob D. Varn

FROM: Steve Smallwood

DATE: September 15, 1980

SUBJ: Best Available Control Technology Determination IMC-

Uranium Recovery Plant/Acid Cleanup Area

Facility:

Phosphoric acid clean up process that uses a series of carbon columns to remove undesirable material from the 30% acid before Uranium is recovered by a solvent extraction process. Particulate and fluoride emission are controlled with a scrubber.

The plant is a potential source of fluoride emissions. There are no specific emission standards for this source category in Chapter 17-2, F.A.C. BACT is required by Chapter 17-2.05(6)C.i.

BACT Determination requested by the applicant:

Fluorides

Less than 0.5 #/hr.

Date of Receipt of a Complete BACT Application:

July 14, 1980

Date of Publication in the Florida Administrative Weekly:

August 8, 1980

Study Group Members:

Robert Garrett, DER, S. W. District Teresa Heron, DER, BAQM

Study Group Recommendations:

Fluoride

Particulate

Robert Garrett

0.003 #F/Ton P₂0₅ (0.422 #F/hr.)

1.0 #/hr.

Teresa Heron

0.002 #F/Ton P₂0₅ (0.28 #F/hr.) Jacob D. Varn Page Two

BACT Determination by the Florida Department of Environmental Regulation:

Pollutant

Maximum Emissions

Fluoride

0.28 lb. fluoride/hr.

Particulate

1.0 lb. particulate/hr.

Compliance to be determined by reference methods 1, 2, 3, 5, 13A or 13B as published in 40 CFR 60, Appendix A, or other State approved method. Minimum sample time per run is 60 minutes and minimum sample volume is 30 DSCF.

Justification of DER Determination:

Test data on this source shows the proposed BACT standards can be met with the existing control equipment.

Details of the Determination May be Obtained by Contacting:

Willard Hanks Department of Environmental Regulation 2600 Blair Stone Road Tallahassee, Florida 32301

Recommendations from the Bureau of Air Quality Management:

By:

Steve Smallwood

Date:

Approved by:

acob D. Varn

Date:

19 SEDTEMBER 1980

Attachment

SS:caa

ATTACHMENT 3 DAP PLANT TEST DATA

			New W	ales [DAP P	lant No	2 - Eas	t Tra	in (04	5)		
				Co	mplia	nce Tes	t Resu	lts				
Run	Time start	Time end	Test Date	Rate TPH	170 TPH max	fuel	mmBtu /hr	PM lb/hr	PM limit lb/hr	% limit	R/G Venturi dP	Dryer Venturi dP
1	943	1048	09/24/01	154				2.8			19.5	23.9
2	1710	1840	09/24/01	152				3.5			19.1	23.9
3	1920	2042	09/24/01	150				2.0			19.0	23.8
Test	Averag	je	09/24/01	_152	89%	No. 6 Oil	9.9	2.8	5.8	48%	19.2	23.9
												_
1	1035	1149	10/10/01	152		_		3.1			17.1	15.8
2	1230	1337	10/10/01	153				3.0			17.3	17.5
3	1405	1511	10/10/01	154				3.7	_		17.2	15.5
Test	Averag	je	10/10/01	154	91%	Nat Gas	1.3	3.3	5.8	56%	17.2	16.3
1	1209	1312	10/30/02	142				4.6			18.8	23
2	1350	1504	10/30/02	135				3.3			18.8	24.6
3	1539	1642	10/30/02	139				4.2			18.9	23.7
Test	Averaç	je	10/30/02	139	82%	Nat Gas	1.2	4.0	5.2	77%	18.8	23.8
1	1407	1513	03/26/03					4.9			20.0	21.6
2	1546	1655	03/26/03				_	2.9			20.2	21.2
3	1727	1832	03/26/03					1.4			20.0	21.7
Test	Averag	je	03/26/03	142	84%	Nat Gas	3.3	3.1	5.4	56%	20.1	21.5
1	1118	1221	01/28/04	152				0.9			22.9	24.0
2	1249	1352	01/28/04	152				1.1			22.5	23.8
3	1420	1523	01/28/04	152				0.9			22.6	23.9
Test	Averag	je	01/28/04	152	89%	Nat Gas	3.3	1.0	5.8	17%	22.7	23.9
1	948	1053	01/28/05	156.3				1.4			22.8	22.3
2	1123	1229	01/28/05	158.3				1.6			22.7	22.6
3	1255	1359	01/28/05	160.3				1.7	-,		22.5	22.7
Test	Averag	je	01/28/05	159.9	94%	Nat Gas	4.7	1.6	6.4	25%	22.7	22.5
1	918	1102	03/15/06	124.4				1.0			17.3	22.5
2	1140	1321	03/15/06	124.4				0.9			16.0	22.6
3	1350	1502	03/15/06	124.4				0.9			17.1	22.9
Test	Averag	je	03/15/06	124.4	73%	Nat Gas	3.9	0.9	6.0	lb/hr	16.8	22.7

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			New Wa	les C	AP F	Plant No	2 - V	/est	Train	(046)	
				Co	mpli	ance Tes	st Re	sults				
Rur	Time start	Time end	Test Date	Rate TPH	170 TPH max	Fuel	mm Btu /hr	PM lb/hr	PM limit lb/hr	% limit	R/G Venturi dP	Dryer Venturi dP
1	1115	1220	09/10/01	145	86%			3.6			20.4	19.5
2	1410	1523	09/10/01	148	87%			4.5			20.4	19.5
3	1538	1643	09/10/01	150	88%			3.1		_	20.8	19.6
Tes	t Aver	age	09/10/01	148	87%	No. 6 Oil	9.0	3.7	5.6	66%	20.5	19.5
1	1230	1346	05/22/02	145	85%			5.0			21.0	22.0
2	1500	1614	05/22/02	152	89%			2.2		-	21.5	21.8
3	1645	1750	05/22/02	150	88%			4.1			21.4	22.0
Tes	t Aver	age	05/22/02	149	88%	Nat Gas	1.4	3.8	5.7	66%	21.3	21.9
1	1042	1149	04/01/03	140	83%			2.9			21.2	22.0
2	1225	1329	04/01/03	141	83%			2.0			21.3	22.2
3	1356	1505	04/01/03	142	84%			3.1			21.3	22.0
Tes	t Aver	age	04/01/03	141	83%	Nat Gas	1.8	2.7	5.4	49%	21.3	22.1
1	907	1010	09/04/03	143	84%			2.1			21.7	18.4
2	1045	1147	09/04/03	143	84%			3.9			21.7	18.4
3	1223	1326	09/04/03	143	84%			0.9			21.7	18.5
Tes	t Avera	age	09/04/03	143	84%	Nat Gas	2.3	2.3	5.4	43%	21.7	18.4
1	932	1041	04/06/04	148	87%		5.9	1.8			22.6	21.0
2	1121	1227	04/06/04	148	87%		5.8	2.0			22.7	21.2
_3	1255	1401	04/06/04	147	87%		4.7	2.1			22.7	20.8
Tes	t Avera	age	04/06/04	148	87%	Nat Gas	5.5	2.0	5.6	35%	22.7	21.0
1	947	1050	02/17/05	147	86%		4.6	2.4			21.1	19.3
2	1105	1208	02/17/05	147	86%		4.6	2.6			20.8	19.0
3	1227	1331	02/17/05	149	88%		4.5	1.2		0001	21.0	18.8
les	t Avera	age	02/17/05	147	87%	Nat Gas	4.6	2.0	6.4	32%	21.0	19.0
	40.40	4445	444005	454	000/		<u> </u>				40.0	-00.4
1	1040	1145	11/16/05	151	89%		3.7	5.1			18.9	20.1
2	1215	1317	11/16/05	147	87%		3.7	3.3			18.6	19.9
3	1345	1447	11/16/05	147	86%		3.7	3.3		0001	18.5	19.8
Tes	t Avera	age	11/16/05	148	87%	Nat Gas	3.7	3.9	5.6	69%	18.6	19.9

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N	New Wales DAP Plant No 2 East Product Cooler (056)					(056)			
			Complia	nce	Test R	esult	S		
Run	Time start	Time end	Test Date	Rate TPH	170 TPH max	PM lb/hr	PM limit lb/hr	% limit	Cooler Venturi dP
1	1525	1630	09/18/01	158	93%	0.9			17.2
2	1655	1800	09/18/01	154	90%	3.9			17.3
3	1830	1935	09/18/01	157	92%	4.2			17.3
Test	Averag	е	09/18/01	156	92%	3.0	6.1	50%	17.3
1	1145	1247	12/06/01	150	88%	3.2			16.5
2	1000	1104	12/07/01	149	88%	2.8			16.0
3	1200	1304	12/07/01	148	87%	2.6			16.0
Test	Averag	е	12/06/01	149	88%	2.8	6.1	47%	16.2
1	1038	1142	12/17/02	133	78%	3.0			15.6
2	1205	1309	12/17/02	134	79%	2.6			15.5
3	1341	1445	12/17/02	135	79%	2.7			15.4
Test	Averag	е	12/17/02	134	79%	2.7	6.1	45%	15.5
1	902	1005	05/04/04	144	85%	3.3			17.1
2	1030	1135	05/04/04	151	89%	0.8			16.8
3	1205	1310	05/04/04	142	84%	0.6			17.0
Test	Averag	е	05/04/04	146	86%	1.6	6.1	26%	17.0
1	1010	1114	/02/24/05	151	89%	9.9		-	15.6
2	1148	1244	02/24/05	137	81%	1.9			15.5
3	1317	1419	02/24/05	143	84%	3.0			16.1
	Averag		02/24/05	144	84%	4.9	6.1	82%	15.7
1	833	935	04/13/06	131	`	0.3			18.3
2	949	1051	04/13/06	133		0.3			18.2
3	1105	1206	04/13/06	131		0.2			18.1
Test	Averag	е	04/13/06	132	77%	0.3	6.1	4%	18.2

APPENDIX BD BEST AVAILABLE CONTROL TECHNOLOGY DETERMINATION (BACT)

Characteristic of this process is that the first stage of scrubbing (acid scrubber) is primarily for ammonia recovery while the primary function of the second stage scrubber is fluoride removal, leaving PM/PM10 control with a secondary priority from a design standpoint. Since recovery of ammonia takes place by chemical reaction with the acid scrubbing medium, the required removal can be effected using a medium energy scrubber which also removes up to 85% of the product dust escaping the cyclones. The tail gas scrubber is a low pressure drop device that removes fluorides by absorption. For these reasons, employment of a high energy, high efficiency device for PM/PM10 removal has not been a design consideration for these plants.

If maximum PM/PM10 removal is considered to be a design parameter, the cost effectiveness of adding high energy scrubbing to the existing system (Option 1) would likely be in the range of \$50,000 - \$75,000 per incremental ton of PM/PM10 removed based on recent analyses for other projects. On a non-incremental basis, however, assuming replacement of the existing acid scrubbers with high energy ones, the cost effectiveness would drop to about \$7,000 to \$9,000 per ton for PM/PM10 removal in the 98+% efficiency range. Due to the high costs of installing new ducts, pumps, fans, and instrumentation for retrofitting an existing system, and the high energy costs, Option 1 is not feasible for this project.

Option 2 is the feasible choice, and since the existing venturi scrubbers are capable of being operated in the medium energy range, the BACT requirement will be satisfied by specifying their normal operation at a minimum pressure drop of 15 in. w.c. Analysis of recent test data for these scrubbers confirms that there is an inordinate safety margin between actual and allowable PM emissions, actuals being less than 20 percent of the allowables. Therefore, it is appropriate to reduce the allowables to a level consistent with typical margins for BACT limits. A margin of 100% above the highest representative data point from the 1997 stack tests $(0.04 \times 2 = 0.08)$ lb/ton P2O5) appears reasonable for the reactor/granulators and dryers. The existing emission limit bases (gr/SCF) for the coolers are sufficient for this BACT determination.

COMPLIANCE

Compliance with the fluoride limit shall be in accordance with the EPA Reference Method 13A or 13B as contained in 40 CFR 60, Appendix A.

Compliance with the PM/PM10 limit shall be in accordance with the EPA Reference Method 5 as contained in 40 CFR 60, Appendix A.

Compliance with the visible emission limit shall be in accordance with the EPA Reference Method 9 as contained in 40 CFR 60, Appendix A.

IMC-Agrico Company DAP Plant No. 2 DEP File No. 1050059-020-AC PSD-FL-241

	<u> </u>	
New Wales Fe	ertilizer Loadin	g VEs
Facility ID 10500	59	
Date	VE	VE
Date	(6 min max)	Allowable
029 Fertilizer Tru	ck/Rail Loadout N	lo. 1
8/1/1995	0	20
9/17/1996	0	20
7/22/1997	0	20
8/4/1998	0	20
8/3/1999	0	20
043 Fertilizer Rai		
3/30/1995	5	_. 5
10/5/1995	0	5
4/26/1996	5	5
10/17/1996	0 .	5
3/19/1997	. 0	5
8/29/1997	0	5 .
2/9/1998	0	5
8/19/1998	0	5
3/2/1999	0	5
037 Fertilizer Tru	ck Loadout No. 2	
3/28/1995	0	5
10/5/1995	0	5
4/24/1996	0	5
10/25/1996	0	5
3/19/1997	0	5
8/29/1997	. 0	5
2/10/1998	0	5
8/19/1998	0	5
3/2/1999	0	5
059 Fertilizer Rail		_
3/9/1995	0	5
3/5/1996	0	5
2/14/1997	0	5
1/28/1998	0	5
3/2/1999	0	-5
041 Fertilizer True		-
3/10/1995	0	5
1/18/1996	5	5
2/14/1997	0	5
1/28/1998	0	5
3/2/1999	0	5

Note: Readings from control device exhausts

Sulfur Deposition New Wales Significant Level, Ib/acre/yr: 75 Date Collected Hours S, mg S, kg/hectare Sig. Level Sig. Sig. Sig. Sig. Sig. Sig. Sig. Sig.	
Collected Hours S, mg kg/hectare S, lb/acre/yr, Sig. Legendre	
Collected Hours S, mg kg/hectare lb/acre projected %	nt of
collected Hodis kg/flectare brace projected %	evel,
03/25/04 585 < 1.0 0.75 0.67 10.1 < 0.9	9
04/30/04 869 < 1.0 0.75 0.67 6.8 < 0.9	9
05/28/04 671 < 1.0 0.75 0.67 8.8 < 0.9	9
07/01/04 818 < 1.0 0.75 0.67 7.2 < 0.9	9
07/30/04 691 1.37 1.03 0.92 11.7 1.2	:
08/31/04 767 1.55 1.17 1.04 11.9 1.4	
09/29/04 697 1.29 0.97 0.87 10.9 1.2	
11/01/04 793 1.58 1.19 1.06 11.7 1.4	
11/29/04 672 < 1.0 0.75 0.67 8.8 < 0.9	9
12/27/04 673 < 1.0 0.75 0.67 8.8 < 0.9	9
01/27/05 743 1.79 1.35 1.20 14.2 1.6	
02/28/05 768 < 1.0 0.75 0.67 7.7 < 0.9	
03/30/05 717 incorrect analysis preformed	
04/29/05 722 incorrect analysis preformed	
05/27/05 671 incorrect analysis preformed	
07/01/05 842 incorrect analysis preformed	
07/28/05 648 incorrect analysis preformed	
08/30/05 790 < 1.0 0.75 0.67 7.5 < 0.90	0
09/30/05 745 < 1.0 0.75 0.67 7.9 < 0.90	0
10/31/05 745 < 1.0 0.75 0.67 7.9 < 0.90	0
11/30/05 722 < 1.0 0.75 0.67 8.1 < 0.90	0
12/28/05 672 0.05 0.04 0.03 0.4 0.04	
01/30/06 792 0.05 0.04 0.03 0.4 0.04	
02/28/06 698 0.13 0.10 0.09 1.1 0.12	
03/30/06 716 0.05 0.04 0.03 0.4 0.04	
04/28/06 696 0.10 0.08 0.07 0.8 0.09	
05/31/06 795 0.02 0.02 0.01 0.1 0.02	
07/05/06 842 0.05 0.04 0.03 0.3 0.04	
07/28/06 547 0.04 0.03 0.03 0.4 0.04	

-

Sheplak, Scott

Sneplak, Scott

From: Sheplak, Scott

Sent: Friday, February 06, 2009 11:38 AM

To: 'Turley, Charles D - New Wales'

Cc: Fuchs, Tom W - New Wales; Larson, Shawn - New Wales; Jellerson, David - Pierce; Ahrens,

Dean - New Wales; Jagiella, Diana - Plymouth; Holtom, Jonathan

Subject: RE: 1050059-053-AC incompleteness letter.pdf - Adobe Reader

Mr. Turley:

We have received your request to withdraw (below) and have updated our records.

Sincerely,

Scott M. Sheplak DEP - Title V Section Mail Station #5505 2600 Blair Stone Road Tallahassee, FL 32399

Telephone 850/921-9532 Fax 850/921-9533

From: Turley, Charles D - New Wales [mailto:David.Turley@mosaicco.com]

Sent: Wednesday, February 04, 2009 3:01 PM

To: Sheplak, Scott

Cc: Fuchs, Tom W - New Wales; Larson, Shawn - New Wales; Jellerson, David - Pierce; Ahrens, Dean - New

Wales; Jagiella, Diana - Plymouth

Subject: RE: 1050059-053-AC incompleteness letter.pdf - Adobe Reader

I apologize for the delay in this response. At this time, Mosaic withdraws the application associated with DEP File Number 1050059-053-AC, the removal of the minimum DAP 2 venturi pressure drops specified in the permit. This request was made to simplify the subsequent Title V permit for New Wales as these particular scrubbers would be addressed under the MACT rule. This correction may be addressed again at some later date.

From: Sheplak, Scott [mailto:Scott.Sheplak@dep.state.fl.us]

Sent: Thursday, January 29, 2009 2:01 PM

To: Turley, Charles D - New Wales

Subject: 1050059-053-AC incompleteness letter.pdf - Adobe Reader

I have been asked about this project that has been in-house for sometime now. The last action on this one was my request for additional information letter on 09/13/2006. We have not received a response. Based on the test data information I had reviewed, I do not have reasonable assurances to approve the request.

Failure to respond within 90 days or lack of reasonable assurances are grounds for denial. I am going to recommend denial of the request based on no response within the 90 days and lack of reasonable assurances. You may also

2/6/2009

-file -

withdraw this request.

Please contact me about follow up action by next Thursday, February 5.

Sincerely,

Scott M. Sheplak DEP - Title V Section Mail Station #5505 2600 Blair Stone Road Tallahassee, FL 32399

Telephone 850/921-9532 Fax 850/921-9533

The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on this link to the DEP Customer Survey. Thank you in advance for completing the survey.

Sheplak, Scott

From: Vielhauer, Trina

Sent: Thursday, January 29, 2009 9:25 AM

To: Sheplak, Scott

Cc: Linero, Alvaro, Holtom, Jonathan

Subject: RE: open project

Sounds good. Thanks. Let them know we will deny if we don't receive a withdrawal by (whatever date we think we can get the denial together- maybe midweek next week?)

From: Sheplak, Scott

Sent: Thursday, January 29, 2009 9:24 AM

To: Vielhauer, Trina

Cc: Linero, Alvaro; Holtom, Jonathan

Subject: RE: open project

This was a loose end resulting from the renewal of Mosaic-New Wales that I processed. As one of the many changes to AC permits with the renewal application, Mosaic requested deletion of a scrubber parameter from PSD-FL-241 permit issued 1/21/1998.

I called Mosaic late last week to ask if they still want to pursue this request. They have not returned my call. I recommend denial based on the data I have. I would like to let them know we intend to deny and they can withdraw it if they so choose.

From: Vielhauer, Trina

Sent: Thursday, January 29, 2009 8:04 AM

To: Sheplak, Scott

Cc: Holtom, Jonathan; Arif, Syed

Subject: open project

This project is still showing open in the time in house reports. Is it really still open? If so- what is it?

1050059-053