

P.O. Drawer L.  
Plant City, Florida 33564-9007  
Telephone: 813/782-1591



**CF Industries Inc.**  
Plant City Phosphate Complex

April 25, 2007

**RECEIVED**

MAY 03 2007

BUREAU OF AIR REGULATION

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

**Subject: CF Industries, Inc.**  
**Plant City Phosphate Complex**  
**Permit No. 0570005-017AV**  
**"C" & "D" Sulfuric Acid Plant**  
**First Quarter 2007 SO<sub>2</sub> CEM/Production Data**

Dear Ms. Vielhauer:

In accordance with Specific Condition, "Subsection B.20." contained in the facility Title V Air Permit No. 0570005-017 AV, enclosed is the First Quarter 2007, SO<sub>2</sub> and Production Data from the "C" & "D" Sulfuric Acid Plants.

If you have any questions concerning this submittal please contact Michael Messina at (813) 364-5639.

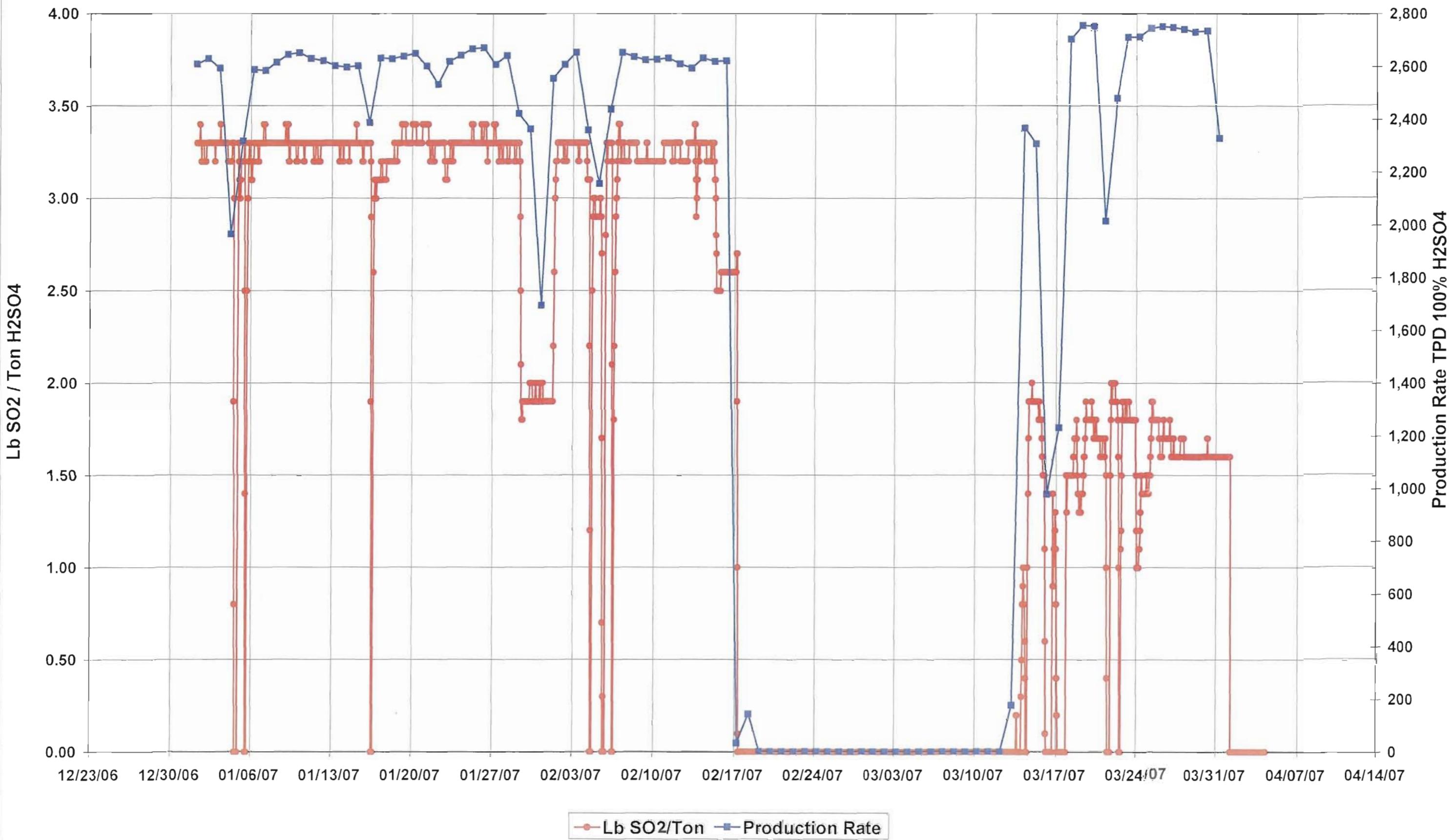
Sincerely,

*Thomas A. Edwards*  
Thomas A. Edwards  
Superintendent, Environmental  
Affairs

U:\2007C&DFirstQCEMProduction.doc  
TAE/JMM/gem

CC: Chris Bradley/FDEP  
Lynn Robinson/HCEPC  
J. M. Messina

**CF Industries Plant City Phosphate Complex**  
**C-SAP Quarterly Report, (1st Quarter 2007) Hourly CEM Data - 3 Hr Rolling Avg**



**CF Industries, Inc. Plant City Phosphate Complex**  
**C-SAP Quarterly Report (1st Quarter 2007), Hourly Stack CEM Data - Lb SO<sub>2</sub>/Ton H<sub>2</sub>SO<sub>4</sub>**  
**January 1, 2007 6:00 AM      Through      April 1, 2007 6:00 AM**

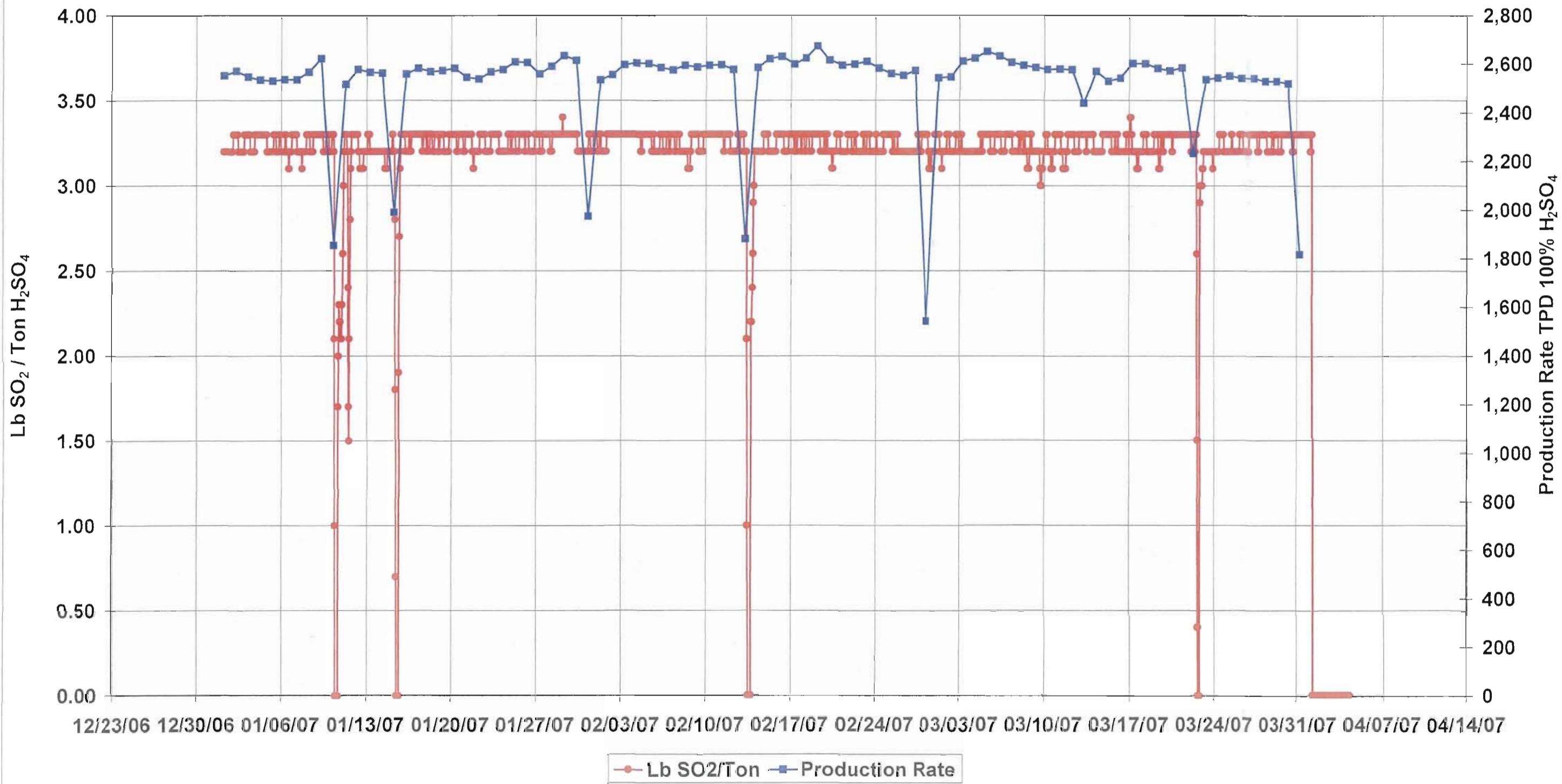
## **3-Hr Rolling Average Period (Previous 2hrs & Indicated Hr)**

	Daily Prod. Tons H2SO4	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM			
1/1/2007	2,608	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.3	3.3	3.2	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3		
1/2/2007	2,628	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		
1/3/2007	2,592	3.3	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	
1/4/2007	1,965	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.0	1.9	0.8	0.0	0.0	0.0	Startup	Startup	Startup	3.3	3.2	3.1	3.0	3.0	3.1	3.2	3.2	3.2	3.2	
1/5/2007	2,317	3.2	3.2	3.2	3.3	3.3	2.5	1.4	Startup	Startup	Startup	2.5	3.0	3.2	3.3	3.3	3.2	3.2	3.2	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.2	
1/6/2007	2,587	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4	
1/7/2007	2,583	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
1/8/2007	2,614	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.3	3.3	3.4	3.3	3.3
1/9/2007	2,644	3.4	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3
1/10/2007	2,650	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1/11/2007	2,629	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1/12/2007	2,620	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1/13/2007	2,601	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1/14/2007	2,596	3.3	3.3	3.3	3.3	3.3	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.3	3.3	3.3	3.3	3.3
1/15/2007	2,601	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1/16/2007	2,387	3.3	3.3	3.3	3.2	2.9	1.9	Startup	Startup	Startup	2.6	3.0	3.1	3.1	3.0	3.0	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
1/17/2007	2,630	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
1/18/2007	2,627	3.2	3.2	3.2	3.2	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4
1/19/2007	2,637	3.4	3.4	3.4	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
1/20/2007	2,648	3.4	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
1/21/2007	2,600	3.4	3.4	3.4	3.4	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1/22/2007	2,531	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.1	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2	
1/23/2007	2,617	3.2	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1/24/2007	2,641	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4
1/25/2007	2,665	3.4	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4
1/26/2007	2,669	3.4	3.4	3.4	3.4	3.4	3.3	3.3	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.4
1/27/2007	2,606	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1/28/2007	2,639	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3
1/29/2007	2,421	3.3	3.3	3.2	3.2	2.9	2.5	2.1	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
1/30/2007	2,363	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.9
1/31/2007	1,695	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
2/1/2007	2,553	1.9	1.9	2.2	2.6	3.0	3.1	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
2/2/2007	2,605	3.3	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
2/3/2007	2,651	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.1	3.1
2/4/2007	2,358	3.1	3.1	3.1	3.1	3.1	2.2	1.2	Startup	Startup	Startup	2.5	2.9	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
2/5/2007	2,155	2.9	2.9	3.0	3.0	2.9	2.9	2.7	1.7	0.7	0.0	0.3	Startup	Startup	Startup	Startup	Startup	2.8	3.3	3.3	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3
2/6/2007	2,436	3.3	3.3	3.3	3.2	2.1	Startup	Startup	Startup	1.8	2.2	2.6	2.9	3.0	3.1	3.2	3.3	3.4	3.4	3.4	3.4	3.3	3.3	3.3	3.2	3.2	3.3	3.3
2																												

**CF Industries, Inc. Plant City Phosphate Complex**  
**C-SAP Quarterly Report (1st Quarter 2007), Hourly Stack CEM Data - Lb SO<sub>2</sub>/Ton H<sub>2</sub>SO<sub>4</sub>**  
**January 1, 2007 6:00 AM                  Through                  April 1, 2007 6:00 AM**  
**3 Up Rolling Average Period (Previous Step & Indicated HR)**

### **3-Hr Rolling Average Period (Previous 2hrs & Indicated Hr)**

CF Industries Plant City Phosphate Complex  
D-SAP Quarterly Report, Hourly CEM Data - 3 Hr Rolling Avg (1st Quarter 2007)



**CF Industries, Inc. Plant City Phosphate Complex**  
**D-SAP Quarterly Report (First Quarter 2007), Hourly Stack CEM Data - Lb SO<sub>2</sub>/Ton H<sub>2</sub>SO<sub>4</sub>**  
**January 1, 2007 6:00 AM      Through      April 1, 2007 6:00 AM**

	Daily Prod. Tons H2SO4	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	
1/1/2007	2,552	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3
1/2/2007	2,571	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1/3/2007	2,547	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1/4/2007	2,534	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
1/5/2007	2,530	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2
1/6/2007	2,536	3.2	3.2	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1/7/2007	2,535	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3
1/8/2007	2,566	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1/9/2007	2,621	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3
1/10/2007	1,854	3.3	3.2	2.1	1.0	0.0	0.0	0.0	Startup	Startup	Startup	1.7	2.0	2.3	2.2	2.2	2.1	2.1	2.1	2.3	2.6	3.0	3.2	3.3	3.3	3.3
1/11/2007	2,516	3.3	3.3	3.3	3.2	3.2	2.4	1.7	1.5	2.1	2.8	3.1	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1/12/2007	2,577	3.3	3.2	3.2	3.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3
1/13/2007	2,565	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
1/14/2007	2,561	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.2
1/15/2007	1,989	3.2	3.2	2.8	1.8	0.7	0.0	0.0	Startup	Startup	Startup	1.9	2.7	3.1	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2
1/16/2007	2,558	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1/17/2007	2,581	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.2	3.2	3.2	3.2
1/18/2007	2,567	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.3	3.3	3.3	3.3
1/19/2007	2,572	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1/20/2007	2,581	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.3
1/21/2007	2,544	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
1/22/2007	2,537	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
1/23/2007	2,566	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
1/24/2007	2,575	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3
1/25/2007	2,607	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1/26/2007	2,604	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1/27/2007	2,558	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2
1/28/2007	2,589	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4
1/29/2007	2,632	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
1/30/2007	2,613	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
1/31/2007	1,973	3.2	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.3
2/1/2007	2,533	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
2/2/2007	2,554	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
2/3/2007	2,595	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
2/4/2007	2,602	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
2/5/2007	2,600	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3
2/6/2007	2,584	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
2/7/2007	2,574	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
2/8/2007	2,593	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3
2/9/2007	2,586	3.3	3.3	3.3	3.3	3.2	3																			

**CF Industries, Inc. Plant City Phosphate Complex**  
**D-SAP Quarterly Report (First Quarter 2007), Hourly Stack CEM Data - Lb SO<sub>2</sub>/Ton H<sub>2</sub>SO<sub>4</sub>**

January 1, 2007 6:00 AM

## Through

April 1, 2007 6:00 AM

### **3-Hr Rolling Average Period (Previous 2hrs & Indicated Hr)**

	Daily Prod. Tons H <sub>2</sub> SO <sub>4</sub>	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM				
2/28/2007	1,543	3.3	3.3	3.3	3.3	3.2	3.1	3.1	3.2	3.2	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3			
8/29/2006	2,542	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.2	3.2	3.2			
3/2/2007	2,546	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.3	3.3	3.3	3.2	3.2		
3/3/2007	2,611	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2		
3/4/2007	2,623	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		
3/5/2007	2,650	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		
3/6/2007	2,631	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		
3/7/2007	2,605	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.2	3.3	3.3	3.3	3.3	3.3		
3/8/2007	2,593	3.2	3.2	3.2	3.3	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.1	3.2	3.2	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2		
3/9/2007	2,584	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.0	3.0	3.0	3.0	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3		
3/10/2007	2,577	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		
3/11/2007	2,578	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		
3/12/2007	2,575	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		
3/13/2007	2,439	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2		
3/14/2007	2,568	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		
3/15/2007	2,528	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.2	3.2	3.2	3.3	3.2	3.2	3.2	3.2		
3/16/2007	2,541	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.3	3.3	3.4	3.3	3.3		
3/17/2007	2,601	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3		
3/18/2007	2,600	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3		
3/19/2007	2,581	3.3	3.3	3.2	3.1	3.1	3.1	3.1	3.2	3.3	3.3	3.3	3.3	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		
3/20/2007	2,571	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		
3/21/2007	2,583	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.3	3.3	3.3	3.3	3.3		
3/22/2007	2,232	3.3	3.3	3.2	3.2	3.2	3.3	3.3	2.6	1.5	0.4	Startup	Startup	Startup	Startup	2.9	3.0	3.0	3.0	3.0	3.0	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2
3/23/2007	2,535	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2		
3/24/2007	2,542	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2		
3/25/2007	2,550	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3		
3/26/2007	2,540	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		
3/27/2007	2,540	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		
3/28/2007	2,528	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		
3/29/2007	2,528	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		
3/30/2007	2,519	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		
3/31/2007	1,817	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.3	3.3		

INSTRUMENT MAINTENANCE PROCEDURE  
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ASSIGNED TO: Tenne /I Floryd DATE: 4-3-07

EMISSION TEST GAS SPAN TEST  
CRITICAL PM QUARTERLY (8 Hours)

PRIOR TO TEST, order the following concentrations of test gas.

3.5 % O<sub>2</sub>; 5 % O<sub>2</sub>; 10% % O<sub>2</sub>, BALANCE NITROGEN

250 PPM SO<sub>2</sub>; 550 PPM SO<sub>2</sub>; 900 PPM SO<sub>2</sub> BALANCE NITROGEN

O<sub>2</sub> and SO<sub>2</sub> bottles to be tested should be in place with regulators and tubing hooked up to sample line to enable switching from one gas bottle to the next without disconnecting.

TEST PROCEDURE

1. Start test as you would an ordinary emissions span test in period 8 or 16 on the Ametek Analyzer. This test procedure MUST be done three (3) times and the results averaged.
  - a. Beginning with the lowest O<sub>2</sub> concentration test gas, open the valve. At period 18, the O<sub>2</sub> will start sampling.
  - b. Stop the timer at this point by arrowing down on analyzer display to "stop timer." Enter "5"; enter password "2222." Allow the reading to stabilize for five (5) minutes.
  - c. Close the low O<sub>2</sub> gas valve and open the medium concentration O<sub>2</sub> gas valve and allow this reading to stabilize, again, at approximately five (5) minutes.
  - d. Close the medium O<sub>2</sub> gas valve and open the high concentration O<sub>2</sub> gas valve.
  - e. Start the analyzer timer, close the high O<sub>2</sub> valve when the sampling period ends.
  - f. Open the low concentration SO<sub>2</sub> valve. Sampling of SO<sub>2</sub> begins at period 20.
  - g. Stop the timer again for stabilization (5 minutes).
  - h. Close the low SO<sub>2</sub> valve and open the medium concentration SO<sub>2</sub> valve. Allow 5 minutes for stabilization.
  - i. Close the medium SO<sub>2</sub> valve and open the high concentration SO<sub>2</sub>. Start timer, allow analyzer to time out.
  - j. Push Flush/Zero button to exit calibration mode.
2. At the WDPF console, open the SO<sub>2</sub>/O<sub>2</sub> Trends. Right "click" on GROUPS, right "click" on DISPLAY. Left "click" on HISTORICAL TRENDS. Change Start/Stop time to cover test period time. Record stabilized reading results, test time and any other pertinent information in the SO<sub>2</sub> book and on the following page.

Approved By: Superintendent Environmental Affairs

F:\doc\pm\_ins\39560-E 1/26/05 Rev. 1 Approved By: Thomas Edwards Date: 1-26-05

INSTRUMENT MAINTENANCE PROCEDURE  
C&D SAP

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BEGIN TIME:  
09:40 Am

OXYGEN TEST 1

Requested Concentration Oxygen	Actual Concentration Oxygen	Yokogawa Analyzer Display	WDPF Reading
3.5%	3.52 %	3.57 %	3.58 %
5.0%	5.0 %	4.98 %	5.0 %
10.0%	10.0 %	10.1 %	10.0 %

OXYGEN TEST 2

Requested Concentration Oxygen	Actual Concentration Oxygen	Yokogawa Analyzer Display	WDPF Reading
3.5%	3.52 %	3.54 %	3.54 %
5.0%	5.0 %	4.99 %	4.97 %
10.0%	10.0 %	10.1 %	10.06 %

OXYGEN TEST 3

Requested Concentration Oxygen	Actual Concentration Oxygen	Yokogawa Analyzer Display	WDPF Reading
3.5%	3.52 %	3.53 %	3.56 %
5.0%	5.0 %	4.98 %	5.00 %
10.0%	10.0 %	10.1 %	10.07 %

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SO2 TEST 1	Requested Concentration SO2	Actual Concentration SO2	Ametek Analyzer Display	WDPF Reading
	250PPM	249 PPM	249,5 PPM	249,2 PPM
	550PPM	532 PPM	532,1 PPM	533 PPM
	900PPM	904 PPM	895,5 PPM	895 PPM

SO2 TEST 2	Requested Concentration SO2	Actual Concentration SO2	Ametek Analyzer Display	WDPF Reading
	250PPM	249 PPM	253,8 PPM	256 PPM
	550PPM	532 PPM	531,6 PPM	532,1 PPM
	900PPM	904 PPM	893,6 PPM	895,0 PPM

SO2 TEST 3 END TIME: <u>12:32 PM</u>	Requested Concentration SO2	Actual Concentration SO2	Ametek Analyzer Display	WDPF Reading
	250PPM	249 PPM	255,7 PPM	256 PPM
	550PPM	532 PPM	532,6 PPM	533 PPM
	900PPM	904 PPM	896,0 PPM	896 PPM

INSTRUMENT MAINTENANCE PROCEDURE  
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AVERAGES

Requested Concentration Oxygen	Actual Concentration Oxygen	Yokogawa Analyzer Display	WDPF Reading
3.5%	3.52 %	3.55 %	3.56 %
5.0%	5.0 %	4.99 %	4.99 %
10.0%	10.0 %	10.1 %	10.04 %

Requested Concentration SO2	Actual Concentration SO2	Ametek Analyzer Display	WDPF Reading
250PPM	249 PPM	253 PPM	254 PPM
550PPM	532 PPM	532.1 PPM	533 PPM
900PPM	904 PPM	895 PPM	895.3 PPM

TEST GAS

Requested Concentrations	Actual Test Gas	Bottle Serial Number
3.5% Oxygen	3.52	CC 10398
5.0% Oxygen	5.0	CC 55137
10.0% Oxygen	10.0	CC 181782
250 PPM SO2	249	CC 253899
550 PPM SO2	532	CC 148444
900 PPM SO2	904	CC 237736

NOTES AND COMMENTS OF INSPECTION

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Completed By: Zaneal Floyd Date: 4-3-07  
(Mechanic's Signature)

Reviewed By: Mac Date: 4/10/07  
(Supervisor's Signature)