

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



CF Industries Inc.

Plant City Phosphate Complex

April 12, 2006

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

RECEIVED

APR 24 2006

BUREAU OF AIR REGULATION

**Subject: CF Industries, Inc.
Plant City Phosphate Complex
Permit No. 0570005-017AV
"C" & "D" Sulfuric Acid Plant
First Quarter 2006 SO2 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 2006, SO₂ 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.

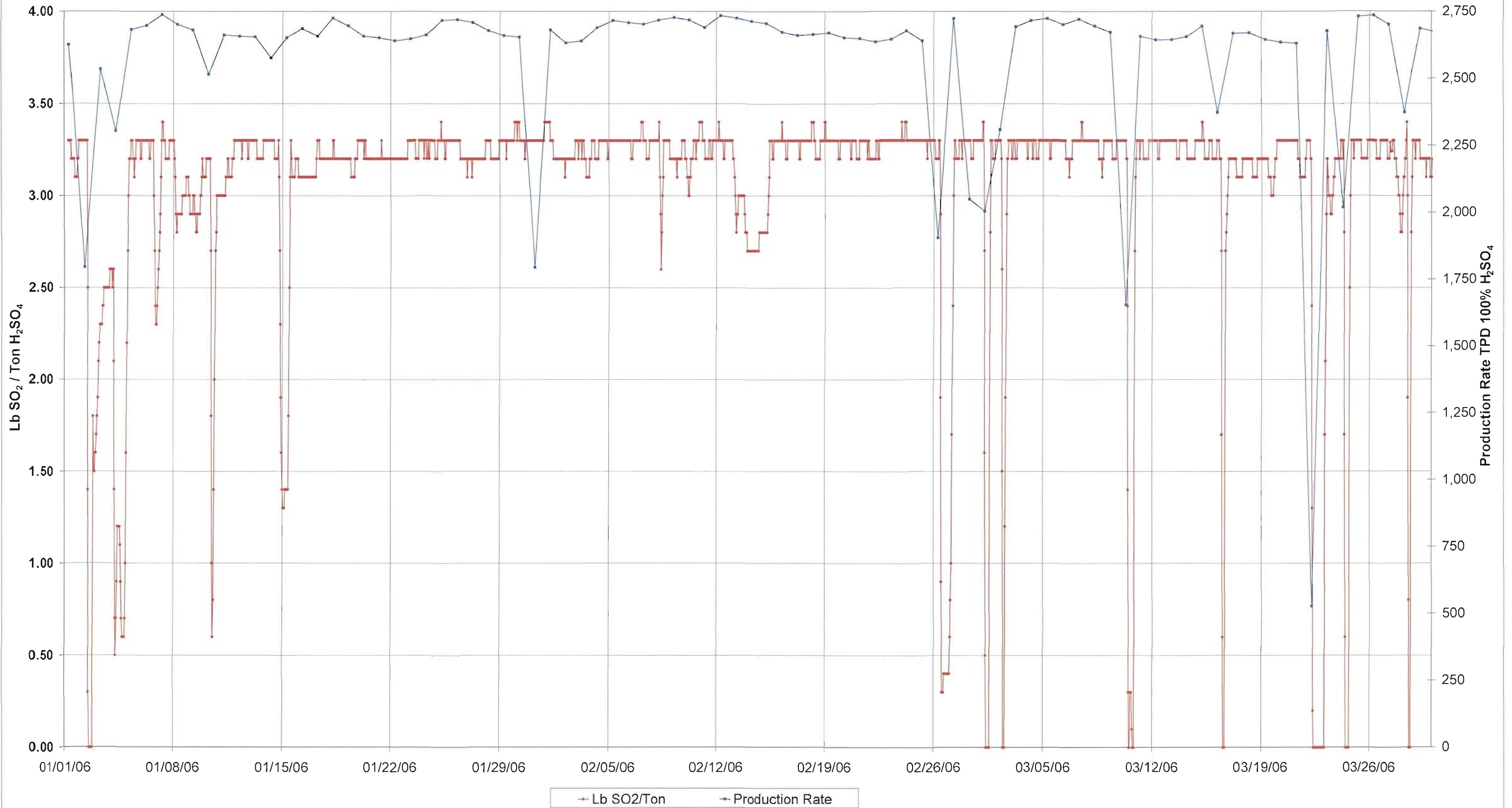
Sincerely,

Thomas A. Edwards
Superintendent, Environmental
Affairs

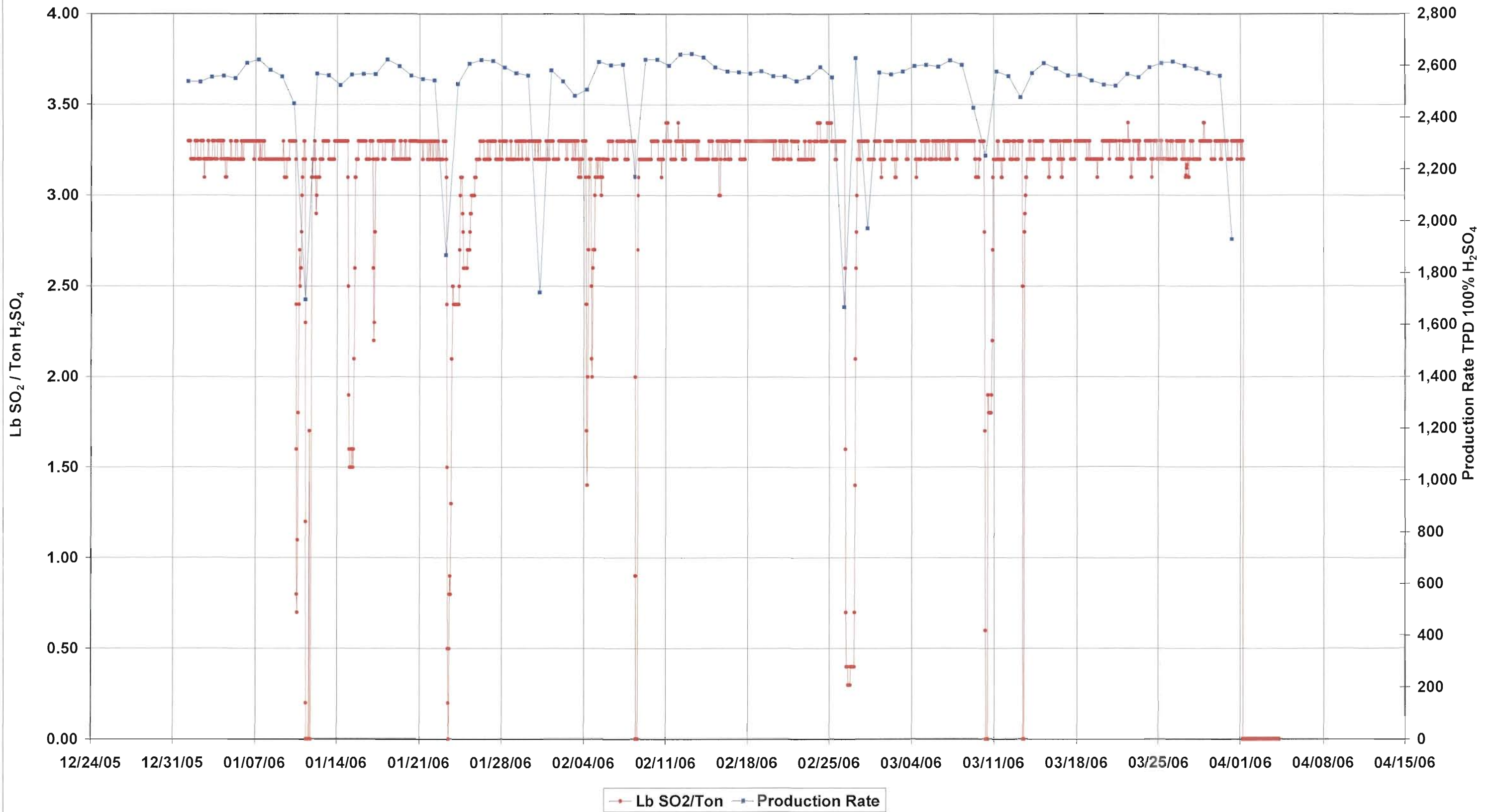
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TAE/JMM/gem

CC: Joel Smolen/FDEP
Diana Lee/HCEPC
J. M. Messina

CF Industries Plant City Phosphate Complex C-SAP Quarterly Report(1st Quarter 2006), Hourly CEM Data - 3 Hr Rolling Avg



CF Industries Plant City Phosphate Complex
D-SAP Quarterly Report (First Quarter 2006), Hourly CEM Data - 3 Hr Rolling Avg



INSTRUMENT MAINTENANCE PROCEDURE
C&D SAP

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ASSIGNED TO: Mark D. Darnard

DATE: 1/23/06

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

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

3.5 % O₂; 5 % O₂; 10% % O₂, BALANCE NITROGEN

250 PPM SO₂; 550 PPM SO₂; 900 PPM SO₂ BALANCE NITROGEN

O₂ and SO₂ 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 O₂ concentration test gas, open the valve. At period 18, the O₂ 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 O₂ gas valve and open the medium concentration O₂ gas valve and allow this reading to stabilize, again, at approximately five (5) minutes.
 - d. Close the medium O₂ gas valve and open the high concentration O₂ gas valve.
 - e. Start the analyzer timer, close the high O₂ valve when the sampling period ends.
 - f. Open the low concentration SO₂ valve. Sampling of SO₂ begins at period 20.
 - g. Stop the timer again for stabilization (5 minutes).
 - h. Close the low SO₂ valve and open the medium concentration SO₂ valve. Allow 5 minutes for stabilization.
 - i. Close the medium SO₂ valve and open the high concentration SO₂. Start timer, allow analyzer to time out.
 - j. Push Flush/Zero button to exit calibration mode.
2. At the WDPF console, open the SO₂/O₂ 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 SO₂ book and on the following page.

Approved By: Superintendent Environmental Affairs

Thomas Edwards 1/26/05

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Approved By:

Edward GAO

Date:

1-26-05

INSTRUMENT MAINTENANCE PROCEDURE
C&D SAP

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BEGIN TIME:

17:04

OXYGEN TEST 1

Requested Concentration Oxygen	Actual Concentration Oxygen	Yokogawa Analyzer Display	WDPF Reading
3.5%	3.52 %	3.44 %	3.50 %
5.0%	5.0 %	4.83 %	4.84 %
10.0%	10.0 %	9.89 %	9.89 %

OXYGEN TEST 2

Requested Concentration Oxygen	Actual Concentration Oxygen	Yokogawa Analyzer Display	WDPF Reading
3.5%	3.52 %	3.45 %	3.41 %
5.0%	5.0 %	4.84 %	4.82 %
10.0%	10.0 %	9.84 %	9.83 %

OXYGEN TEST 3

Requested Concentration Oxygen	Actual Concentration Oxygen	Yokogawa Analyzer Display	WDPF Reading
3.5%	3.52 %	3.45 %	3.44 %
5.0%	5.0 %	4.83 %	4.77 %
10.0%	10.0 %	9.88 %	9.84 %

INSTRUMENT MAINTENANCE PROCEDURE
C&D SAP

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SO2 TEST 1

Requested Concentration SO2	Actual Concentration SO2	Ametek Analyzer Display	WDPF Reading
250PPM	253 PPM	254.5 PPM	256.89 PPM
550PPM	532 PPM	537.5 PPM	537.65 PPM
900PPM	914 PPM	916.7 PPM	918.82 PPM

SO2 TEST 2

Requested Concentration SO2	Actual Concentration SO2	Ametek Analyzer Display	WDPF Reading
250PPM	253 PPM	260.3 PPM	261.78 PPM
550PPM	532 PPM	537.6 PPM	535.82 PPM
900PPM	914 PPM	919.1 PPM	913.02 PPM

SO2 TEST 3

END TIME:

19:10

Requested Concentration SO2	Actual Concentration SO2	Ametek Analyzer Display	WDPF Reading
250PPM	253 PPM	261.3 PPM	269.71 PPM
550PPM	532 PPM	539.5 PPM	539.18 PPM
900PPM	914 PPM	916.2 PPM	920.95 PPM

AVERAGES


Requested Concentration Oxygen	Actual Concentration Oxygen	Yokogawa Analyzer Display	WDPF Reading
3.5%	3.52%	3.44%	3.45%
5.0%	5.0%	4.83%	4.81%
10.0%	10.0%	9.87%	9.85%


Requested Concentration SO2	Actual Concentration SO2	Ametek Analyzer Display	WDPF Reading
250PPM	253 PPM	258.7 PPM	262.79 PPM
550PPM	532 PPM	538.1 PPM	537.55 PPM
900PPM	914 PPM	917.3 PPM	917.59 PPM

TEST GAS

Requested Concentrations	Actual Test Gas	Bottle Serial Number
3.5% Oxygen	3.52 %	CC 10398
5.0% Oxygen	5.00 %	CC 55137
10.0% Oxygen	10.0 %	CC 181782
250 PPM SO2	253 ppm	CC 128881
550 PPM SO2	532 ppm	CC 148444
900 PPM SO2	914 ppm	CC 128839

NOTES AND COMMENTS OF INSPECTION

Completed By:  Date: 1/23/06
(Mechanic's Signature)

Reviewed By:  Date: 3-13-06
(Supervisor's Signature)