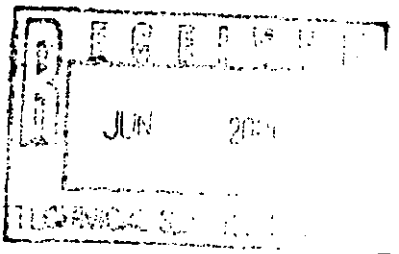
AP32 Section:	12.5.1
Background Chapter	3
Reference:	32
Title:	Emissions Test Report for Sulfur Dioxide and Oxides of Nitrogen, Gallatin Steel Company, Ghent, KY (Permit Number V-99-003). May 3, 2001. Ambient Air Services, Inc., Starke, FL.



interoffice
MEMORANDUM

to: Jerry Slucher
from: Edd Frazier
subject: Stack test review
date: June 8, 2001

Re: Gallatin Steel
21-077-00018/5

Please review the attached test report. This test was performed on May 3, 2001, and the NOx and SO2 emissions from the baghouse for the EAF were determined. Please inform me of your findings when your review is done.

attachment

GALLATIN
STEEL

ISO 9002 CERTIFIED
QS 9000 CERTIFIED

53869

RECEIVED

JUN 4 2001

PERMIT REVIEW BRANCH
DIVISION FOR AIR QUALITY

May 31, 2001

Mr. Edd Frazier
Permit Review Branch
Division for Air Quality
803 Schenkel Lane
Frankfort, KY 40601-1403

RE: Air Emissions Performance Testing – May 2001
Gallatin Steel Company, Warsaw, Kentucky
AFS Plant I.D. # 21-077-00018, Permit # V-99-003

Dear Edd:

Enclosed is the test report prepared by Ambient Air Services, Inc. for the air emissions performance testing conducted at Gallatin Steel Company on May 3, 2001 for SO_2 and NOx.

Data sheets for the baghouse pressure drops, furnace shell pressures, fan amperes and damper positions are included in Appendix F of the report with the production data. The sulfur content of the charge carbon used during the test was 0.54%.

The amount of injection carbon used per heat was requested by the DAQ to be collected during the testing and Gallatin Steel considers this information confidential information. Gallatin Steel Company requests that this information be afforded confidential treatment pursuant to the provisions of 400 KAR 1:060. This information is enclosed on a separate sheet and is marked "Confidential Information, Property of Gallatin Steel". Gallatin Steel is furnishing the enclosed "Statement of Basis for Claim of Confidentiality, Air Emissions Testing" as provided by 400 KAR 1:060 Section 3.

If you have any questions regarding the request for confidential treatment of information or if you have any questions regarding the test report, please feel free to contact me at (859) 567-3141.

Sincerely yours,

Valerie A. Hudson

Valerie A. Hudson, P.E.
Process Manager – Environmental Systems

R.R. 1 Box 320
Ghent, Ky 41045-9704
859.567.3100
859.567.3165 fax
www.gallatinsteel.com

EMISSIONS TEST REPORT FOR SULFUR DIOXIDE AND OXIDES OF NITROGEN

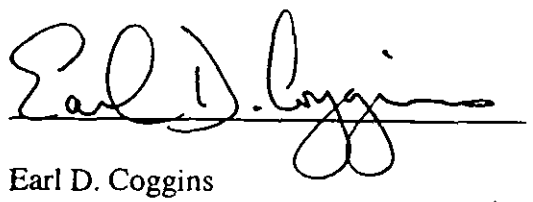
GALLATIN STEEL COMPANY
GHENT, KENTUCKY
(PERMIT NUMBER V-99-003)

MAY 3, 2001

AMBIENT AIR SERVICES, INC.
106 AMBIENT AIR WAY
STARKE, FLORIDA 32091
(904) 964-8440

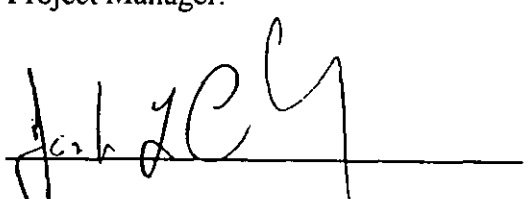
Ambient Air Services, Inc. of Starke, Florida, has completed the testing described in this report for the Gallatin Steel Company, Ghent, Kentucky facility. To the best of our knowledge and abilities we certify that all information, facts and test data are true and correct. Information supplied to AASI for use in this report from Gallatin Steel is perceived to be accurate and is used as such where necessary.

Test Team Leader:



Earl D. Coggins

Project Manager:



Joseph L. Cooksey

Facility	Gallatin Steel					
Source Type	Electric Arc Furnace					
Performed By	Ambient Air Services	Req. by		E. Frazier	Rvwed. By	Slucher
Date Performed	5/3/2001	Received	6/8/01	Reviewed	6/19/01	

PARTICULATE

	Run #1	Run #2	Run #3
Cp	0.84	0.84	0.84
Theta,min.	252	252	252
Cold Duct 1			
As1,ft2	201.062	201.062	201.062
Ts1,degF	100.5	136.6	118.3
Ps1,in.Hg.	29.49	29.37	29.38
DELP1sqrt	1.3743	1.4183	1.4069
Cold Duct 2			
As2,ft2	78.54	78.54	78.54
Ts2,degF	100.1	106.2	95.5
Ps2,in.Hg.	29.59	29.48	29.48
DELP2sqrt	0.3707	0.0713	0.0213
LMF Duct			
As3,ft2	19.635	19.635	19.635
Ts3,degF	158.3	159	177.3
Ps3,in.Hg.	29.43	29.32	29.35
DELP3sqrt	0.3272	0.2231	0.3519
Furnace A Duct			
As4,ft2	63.617	63.617	63.617
Ts4,degF	544.1	123.5	50.6
Ps4,in.Hg.	29.42	29.39	29.23
DELP4sqrt	0.875	0.2356	0.2735
Furnace C Duct			
As5,ft2	78.54	78.54	78.54
Ts5,degF	103.4	510.2	504.3
Ps5,in.Hg.	29.42	29.37	29.35
DELP5sqrt	0.3462	0.7997	0.8919
Asout,ft2	12069.79	12069.79	12069.79
Gamma	0.992	0.992	0.992
Tm,degF	77.3	535.6	76.5
Ps,in.Hg.	29.74	29.66	29.66
Pbar,in.Hg.	29.74	29.66	29.66
Vlc,ml.	28.1	16.5	16.3
Vm.ft3.	64.155	31.921	32.081
DELH,in.H2O	1.741	1.9	1.9
C02%	0	0	0
O2%	20.9	20.9	20.9
CO%	0	0	0
N2%	79.1	79.1	79.1
Vwstd,ft3	1.32351	0.77715	0.76773
Vmstd,ft3.	62.4065649	16.719136	31.181744
Bws	0.02076743	0.044418	0.0240295
Md	28.836	28.836	28.836
Ms	28.6109641	28.3546866	28.5756163

vs1,ft/sec	80.4378262	86.2064839	83.8514796
vs2,ft/sec	21.6526595	4.21398418	1.24209466
vs3,ft/sec	20.1347455	13.8243617	22.0284517
vs4,ft/sec	68.6283503	14.1572239	15.3560716
vs5,ft/sec	20.3396047	61.9851898	68.6775818
Q1std,dscf/hr.	52935706.7	51800264.3	53106710.7
Q2std,dscf/hr.	5589085.74	1046123.02	320995.604
Q3std,dscf/hr.	1170650.62	780531.905	1235063.09
Q4std,dscf/hr.	7957958.71	2753920.25	3467459.48
Q5std,dscf/hr.	5189415.75	8946699.62	10179159.2
Qtotal,dscf/min	1214046.96	1088792.32	1138489.8
vs,out ft/sec	0.02794044	0.02505779	0.02620155

NITROGEN OXIDES

ppm	1.8	1.7	1.6
tons/hr	184.8	195	191.6
lb/scf	2.15E-07	2.0308E-07	1.911E-07
lb/hr	15.663239	13.2668418	13.056378
lbs/ton	0.0847578	0.06803509	0.0681439

Avg lbs/ton 0.0736456

SULFUR DIOXIDE

ppm	2.615	2.3	3.635
tons/hr	184.8	195	191.6
lb/scf	4.349E-07	3.8255E-07	6.046E-07
lb/hr	31.682209	24.990858	41.299219
lb/ton	0.1714405	0.12815825	0.2155492

Avg lbs/ton 0.171716

1.0 EXECUTIVE SUMMARY

On May 3, 2001 emission tests were conducted at the Gallatin Steel mill located in Warsaw, Kentucky. The emission testing was conducted in accordance with the requirements listed in the Kentucky Department of Environmental Protection, Division of Air Quality, PSD Permit V-99-003. In accordance with Permit V-99-003 Gallatin Steel was required to test for NO_x and SO_2 emissions. Based on results from testing conducted in 1998 and 1999, testing was not required for VOC, PM, CO and lead emissions. The results from this test indicate compliance with the NO_x and SO_2 permit limitations. Table 1 summarizes the results of these testing efforts.

TABLE 1

SUMMARY OF EMISSION TEST RESULTS

GALLATIN STEEL COMPANY - WARSAW, KENTUCKY MILL
GHENT, KENTUCKY

May 3, 2001

EMISSION POINT	PARAMETER	PERMIT LIMIT	TEST RESULTS
EAF/CASTER LMF Baghouse	Sulfur Dioxide (SO_2)	0.20 lbs/ton 40 lbs/hr.	0.18 lbs/ton 33.70 lbs/hr.
Emission Point E1 (01)	Oxides of Nitrogen	0.51 lbs/ton 102.0 lbs/hr.	0.075 lbs/ton 14.19 lbs/hr.

TABLE OF CONTENTS

2.0 INTRODUCTION

On May 3, 2001 Ambient Air Services, Inc. conducted air emission testing at Gallatin Steel Company's, Ghent, Kentucky mill. Prior to starting these tests, Kentucky Department of Environmental Protection personnel were notified of the testing schedule and provided a testing protocol for review. A copy of the Notification Letter is included in the Appendix section of this report.

Testing methods and time duration are summarized in Table 2.

TABLE 2

SUMMARY OF TESTING METHODS

GALLATIN STEEL COMPANY

GHENT, KENTUCKY

MAY 3, 2001

POLLUTANT-SOURCE	EPA REFERENCE METHOD	TIME DURATION
Sulfur Dioxide - E1 (01)	Method 6C	3 runs, 3 heats each, 2 compartments tested simultaneously per run
Oxides of Nitrogen - E1 (01)	Method 7E	3 runs, 3 heats each All tests conducted in Compartment 7

3.0 PROCESS DESCRIPTION

At the Ghent, Kentucky facility of Gallatin Steel, the overall objective is to reclaim scrap steel of various forms, refining this material to create rolled steel coils. This type of mill is commonly referred to as a "mini" mill. The particular aspect of this mill examined by these testing efforts were the Electric Arc Furnace (EAF) operations. The EAF by introducing heat primarily in the form of an electric arc provides the energy necessary to melt the scrap steel. Once melted and refined, the furnace is tapped and the product is transferred to the caster/tunnel furnace to be formed into rolled steel. To control the amount of particulate escaping from the melt shop building, during all operations, a baghouse filter system is employed. This system exhausts the furnace directly through fourth hole and canopy hood ducts.

4.0 GASEOUS EMISSION SAMPLING

4.1 Methodology

Continuous instruments were used to measure SO_2 and NO_x emissions. The arc furnace shop sample was obtained from the baghouse. A dilution extraction system was utilized to convey the sulfur dioxide sample gas to the sulfur dioxide analytical instruments. A fully extractive system was utilized for the NO_x instrument. The sample was obtained from a representative middle point among the bag filter banks on the clean side of the baghouse. The sample probe for the NO_x instrument was positioned in Compartment 7 of the baghouse for the duration of the test. The probe for the SO_2 sample was positioned in 6 different compartments, 2 per test run.

Gaseous emission sampling consisted of three runs, each run covering three furnace "heats". Utilizing the flow rates (SCFM) measured during each run, mass emissions were calculated in lbs/hr. and in lbs/ton.

As described in the test protocol, in order to sample a maximum number of compartments per test run, two SO_2 instruments were utilized. The sample probe for each instrument was positioned in separate compartments. Thus, a total of six compartments were tested for three heats each over the test period. The compartments were selected so that one inner and one outer compartment were sampled during each run. The compartments were randomly selected.

Historically all SO_2 measurements were conducted in Compartment Number 7. This originated at the request of the State of Kentucky. Compartment 7 was selected by the State due to the location of the installed CEMS probe. Through a baghouse consultant, Gallatin learned that the sulfur

dioxide may be different in concentration in different compartments within the baghouse. This stratification is due in part to the design of the duct work and fan configuration.

As can be seen in the results summary, SO_2 concentrations vary considerably from compartment to compartment within the baghouse. In order to achieve a more statistically valid average, compartments were selected so that one "inner" and one "outer" compartment were sampled per test run. The inner and outer compartments were selected to achieve a cross-sectional average of all compartments based on engineering judgements.

Example of Dilution Withdrawl System

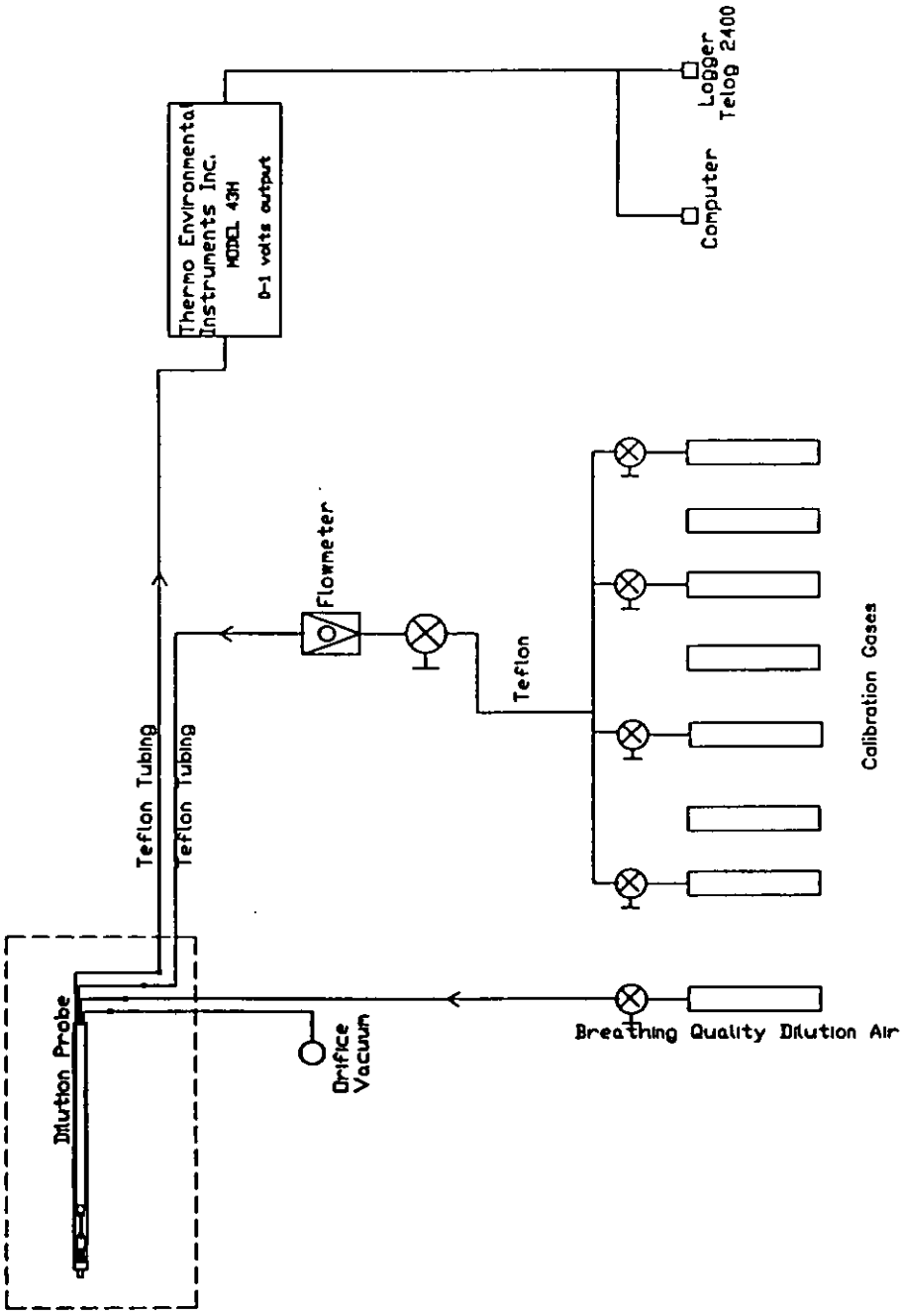


FIGURE 4-1

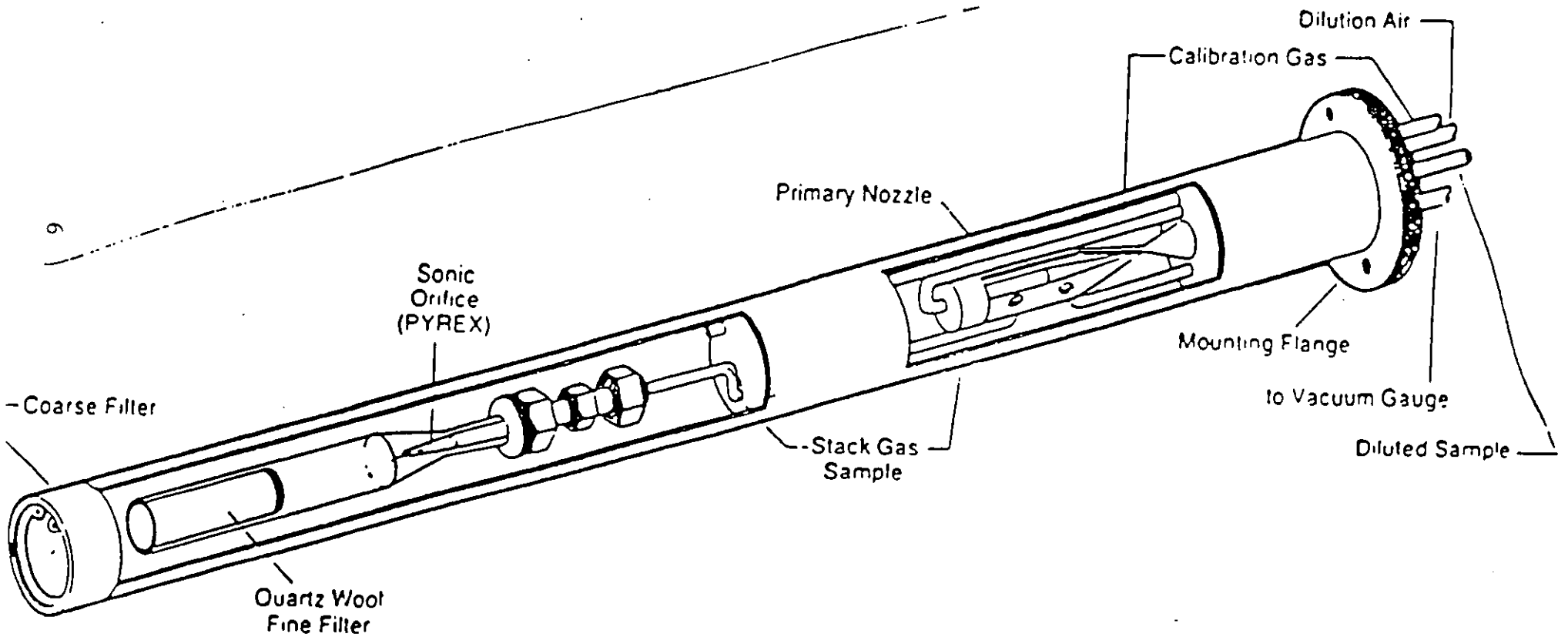

Dilution Air
Calibration Gas
Primary Nozzle
Sonic
Orifice
(PYREX)
Mounting Flange
Coarse Filter
to Vacuum Gauge
Stack Gas
Sample
Diluted Sample
Quartz Wool
Fine Filter

FIGURE 4-2

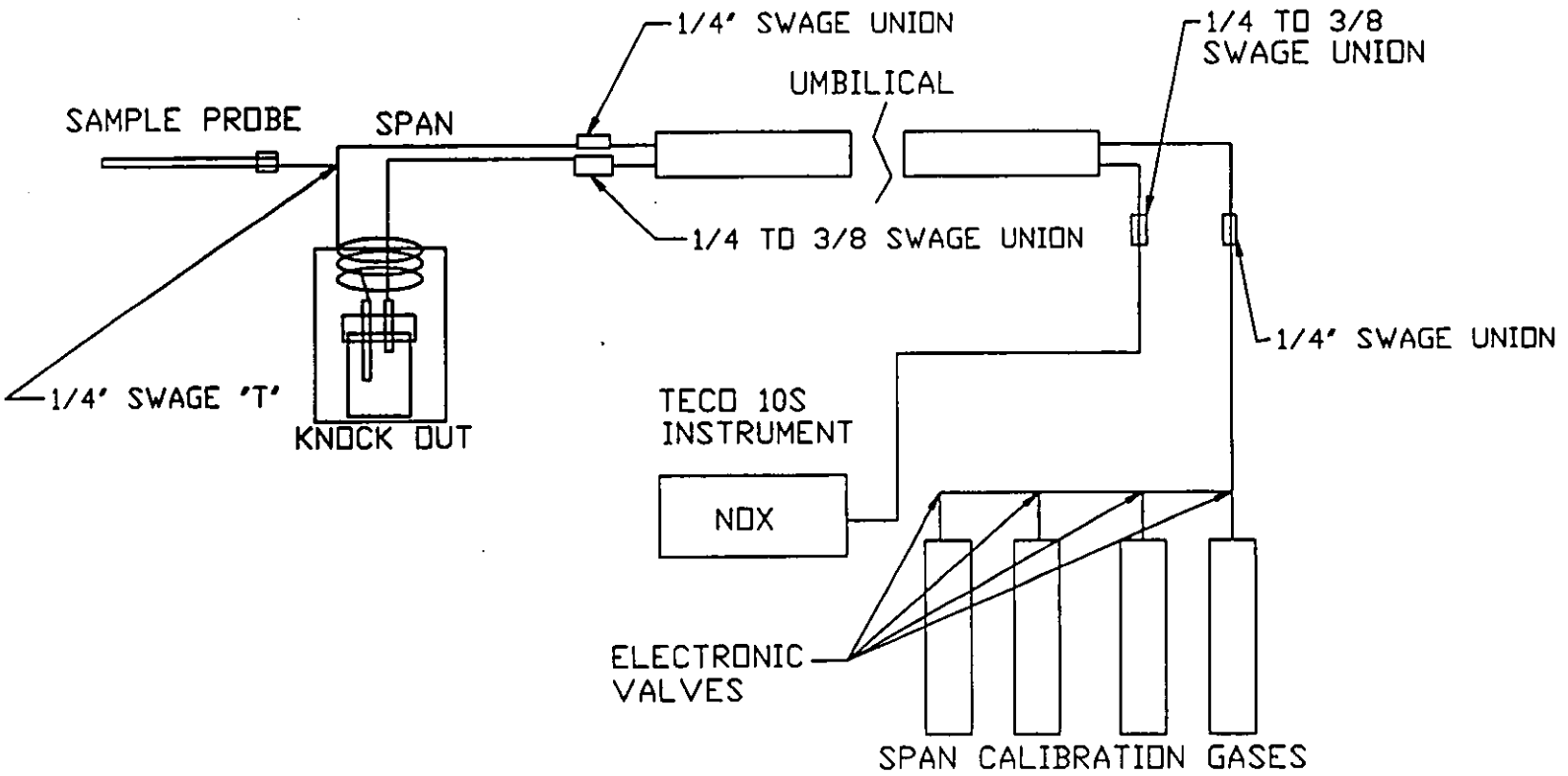


FIGURE 4-3

FULLY EXTRACTIVE WITHDRAWAL SYSTEM - NOx

Data Recording

The primary data recorder was a Telog Model 3314 electronic data recorder which is based on micro-processor technology. This recorder interrogates each analytical instrument signal on a once-every-one-second basis and for this test was instructed to accumulate 60 of these one-second readings and store the average into recorder memory. The data bank consists of a series of one minute averages. In retrieving the data from the computerized database, scaling factors were entered to reflect the appropriate calibrations which occurred immediately before and after collecting the data set of current interest. The analysis of SO_2 gaseous species was carried out as follows:

Sulfur Dioxide

Sulfur Dioxide concentrations were determined by EPA Method 6C. Two Thermo Environmental Instruments (TEI) Model 43H instruments were used. EPA protocol calibration gases of SO_2 in air were used at nominal levels of 0, 6, and 12.0 ppm (instrument range 0-15 ppm). Calibrations were performed before and after each test run. EPA Method 6C required correction factors were applied to the data based on the results of the calibrations.

Table 4-1 summarizes the TEI Model 43H versus those required by Method 6C.

TABLE 4-1

SULFUR DIOXIDE SYSTEM PERFORMANCE SPECIFICATIONS METHOD 6C VS THERMO ENVIRONMENTAL INSTRUMENTS MODEL 43H		
	METHOD 6C	TECO 43H
Calibration error zero, mid and high gases	Less than ±2% span	±1% of full scale
Sampling system bias for zero, mid and high gases	Less than ±5% span	±1% of full scale
Interference Check	Less than ±7% of Method 6 result	NO < 3 ppb M-Xylene <2 ppb H2O < 2% of reading
Calibration Drift	Less than ±3% of span over the run period	±1% of full scale

Oxides of Nitrogen - Oxides of Nitrogen were measured using EPA Method 7E. Table 4-2 relates the required performance specifications of Method 7E to those presented by the manufacturer of the TEI Model 10S used in these tests. The instrument was calibrated over a nominal range of 0-100 ppm.

Results from the test are expressed in mass per unit time with all NO_x converted to the species NO_2.

At the beginning of the test series zero gas plus two calibration gases were used to perform calibration checks. At the conclusion of each of the three runs, zero gas plus one calibration gas was used as a calibration check.

TABLE 4-2

OXIDES OF NITROGEN SYSTEM PERFORMANCE SPECIFICATIONS METHOD 7E VS THERMO ENVIRONMENTAL INSTRUMENTS MODEL 10S		
	METHOD 7E	***TECO 10S***
Calibration error zero, mid and high gases	Less than ±2% span	±1% of full scale
Sampling system bias for zero, mid and high gases	Less than ±5% span	±1% of full scale
Zero Drift	Less than ±3% of span over the run period	Negligible
Calibration Drift	Less than ±3% of span over the run period	±1% of full scale

Flow, Moisture, Oxygen and Carbon Dioxide - In order to convert concentration values of parts per million NO_x and SO_2 into pounds per hour it was necessary to determine the effluent flow rate. The effluent flow rate was determined in accordance with EPA Methods 1-4.

Since the baghouse exhaust does not meet the criteria of Method 1, the flow was determined on the baghouse inlet. Specifically, there are five inlet ducts to the baghouse. Flow was measured on each of the inlet ducts and added together to get the total flow. All fresh air inlets to the compartments tested were blocked during the test. This prevented the influence of dilution air on the gas emission concentrations. Figures 4-4 through 4-8 depict the traverse points used.

In addition to the traverse data, moisture runs were conducted in accordance with EPA Method 4.

Oxygen and carbon dioxide levels were confirmed to be essentially ambient air (0% CO_2, 20.9% O_2) using Method 3. A fyrite type analyzer was used for this purpose.

FURNACE DUCT "A" – DIAMETER = 108.0", 12 TRAVERSE POINTS

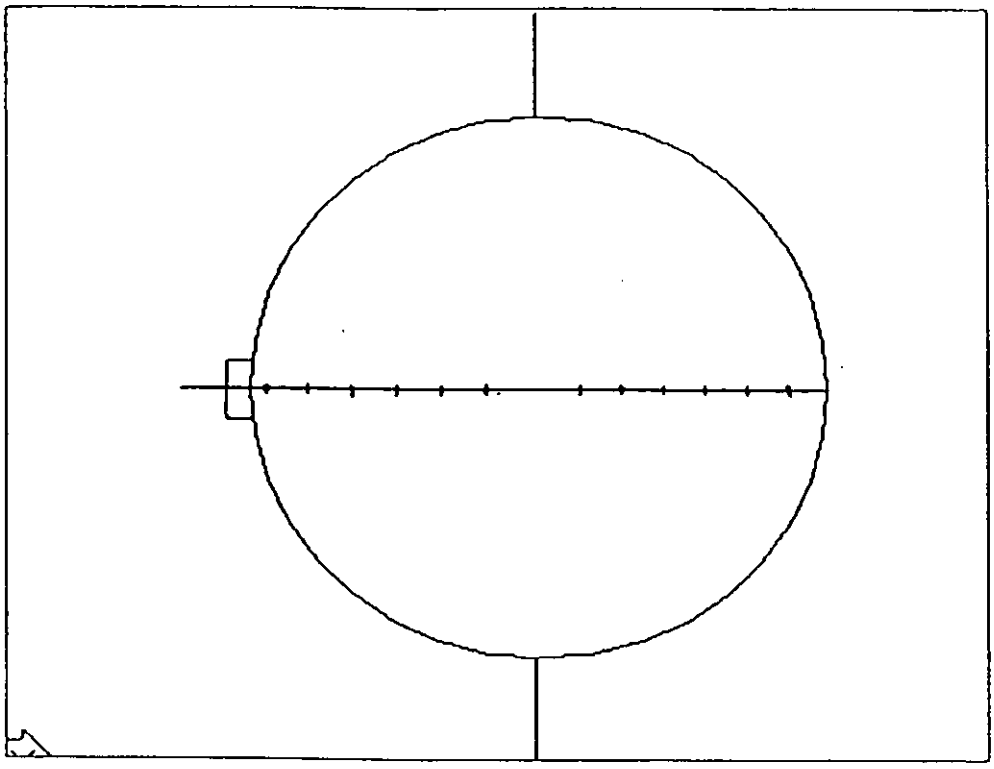


FIGURE 4-4

POINT	DISTANCE FROM WALL	POINT	DISTANCE FROM WALL
1	2.3"	7	69.6"
2	7.2"	8	81.0"
3	12.7"	9	88.9"
4	19.1"	10	95.3"
5	27.0"	11	100.8"
6	38.4"	12	105.7"

FURNACE DUCT "A" TRAVERSE POINTS

FURNACE DUCT "C" – DIAMETER = 120", 16 TRAVERSE POINTS

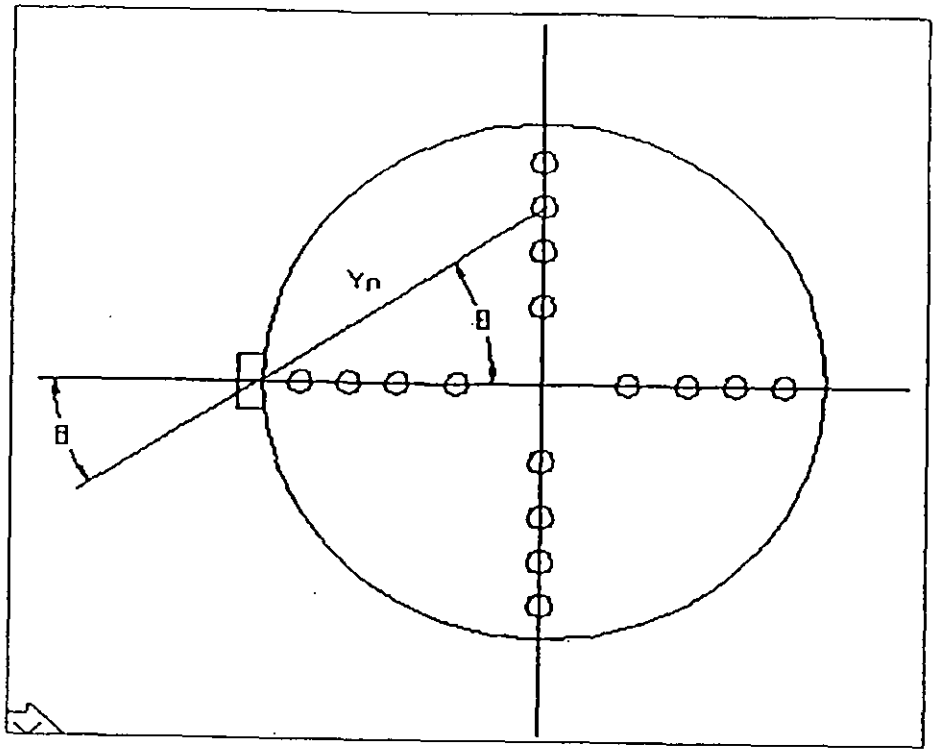


FIGURE 4-5

VERTICAL TRAVERSE		HORIZONTAL TRAVERSE		
POINT	DISTANCE FROM WALL	POINT	θ	Yn
1	3.84	1	43.1	82.2
2	12.6	2	38.3	76.5
3	23.3	3	31.5	70.3
4	38.76	4	19.5	63.6
5	81.24	5	-19.5	63.6
6	96.72	6	-31.5	70.3
7	107.4	7	-38.3	76.5
8	116.16	8	-43.1	82.2

FURNACE DUCT "C" TRAVERSE POINTS

LMF DUCT -- DIAMETER = 60.0", 12 TRAVERSE POINTS

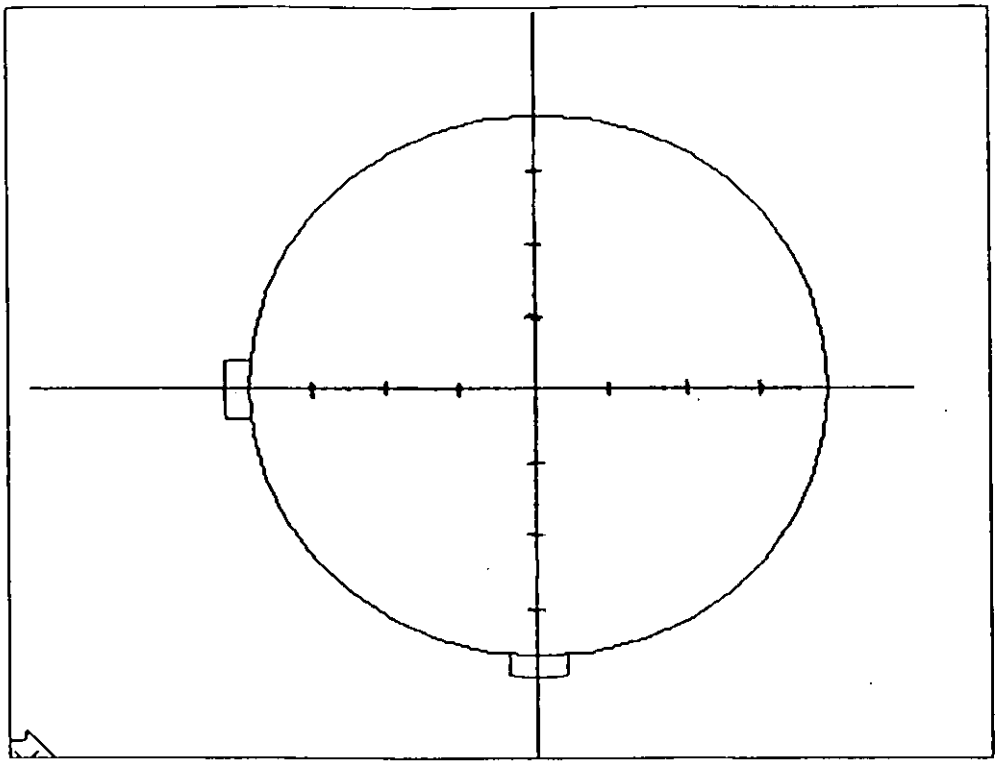


FIGURE 4-6

POINT	DISTANCE FROM WALL
1	2.6"
2	8.8"
3	17.8"
4	42.2"
5	51.2"
6	57.4"

LMF DUCT TRAVERSE POINTS

NO. 1 COLD DUCT -- DIAMETER = 192", 12 TRAVERSE POINTS

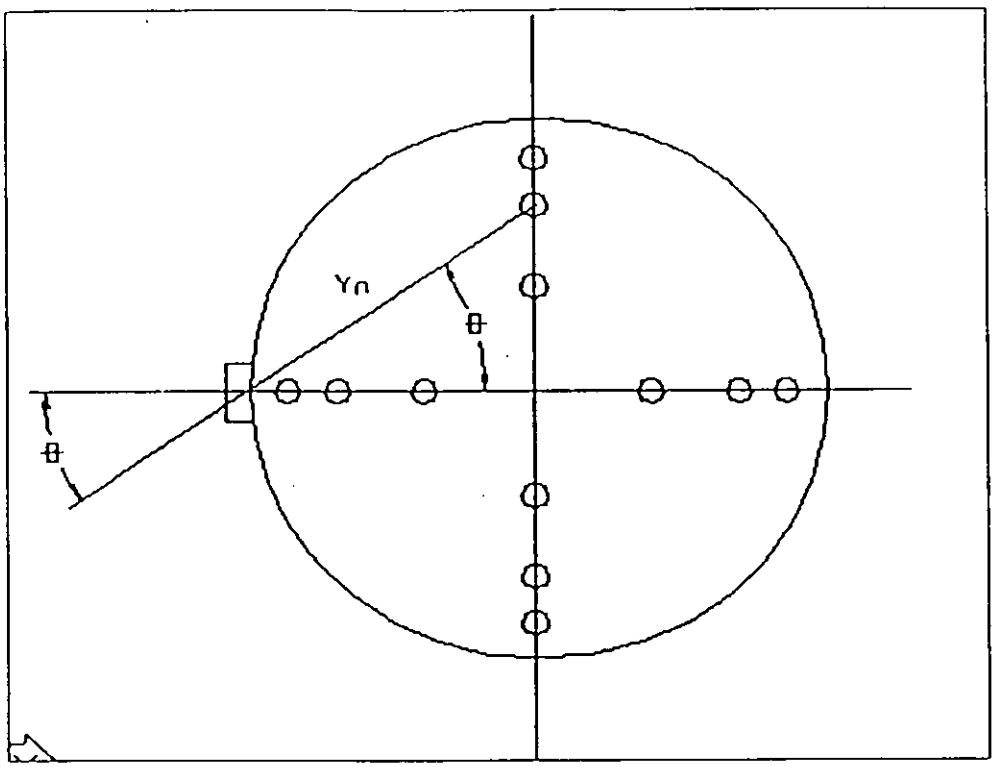


FIGURE 4-7

VERTICAL TRAVERSE		HORIZONTAL TRAVERSE		
POINT	DISTANCE FROM WALL	POINT	θ	Yn
1	8.45	1	42.4	129.9
2	28.42	2	35.2	117.4
3	56.83	3	22.2	103.7
4	135.17	4	22.2	103.7
5	163.97	5	35.2	117.4
6	183.55	6	42.4	129.9

NO. 1 COLD DUCT TRAVERSE POINTS

NO. 2 COLD DUCT -- DIAMETER = 120", 16 TRAVERSE POINTS

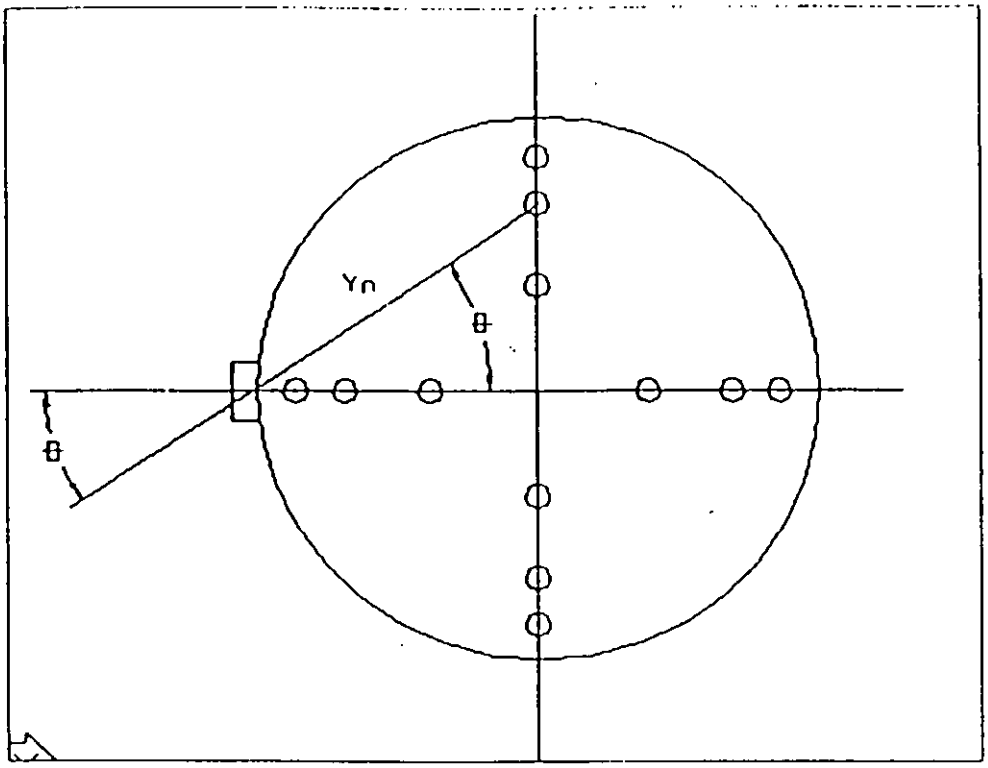


FIGURE 4-8

VERTICAL TRAVERSE		HORIZONTAL TRAVERSE		
POINT	DISTANCE FROM WALL	POINT	θ	Yn
1	3.84	1	43.1	82.2
2	12.6	2	38.3	76.5
3	23.3	3	31.5	70.3
4	38.76	4	19.5	63.6
5	81.24	5	-19.5	63.6
6	96.72	6	-31.5	70.3
7	107.4	7	-38.3	76.5
8	116.16	8	-43.1	82.2

NO. 2 COLD DUCT TRAVERSE POINTS

4.2 Test Results

The results of the instrumental testing for gaseous emissions are as follows:

TABLE 4-3

SUMMARY OF OXIDES OF NITROGEN EMISSION MEASUREMENTS GALLATIN STEEL COMPANY GHENT, KENTUCKY EAF/LMF/CASTER BAGHOUSE May 3, 2001							
RUN NUMBER	**HEAT NUMBERS**	**PRODUCTION**	**TEST TIME**	**OXIDES OF NITROGEN (as NO_2)**			**OXIDES OF NITROGEN PERMIT LIMITS (as NO_2)**
		TONS PER HOUR	**Minutes**	**ppm**	**Lbs/ hr.**	**Lbs/ ton**	
1	A17462, C16853, A17463	184.8	196	1.8	15.4	0.08	0.51 lbs/ton and 102 lbs/hr.
2	A17465, C16856, A17466	195.0	180	1.7	13.8	0.07	
3	A17467, C16858, A17468	191.6	198	1.6	13.3	0.07	
Averages[1]			574	1.71	14.19	0.075	

[1] Time Weighted Average

Notes: PPM = Parts per Million V.V
Lbs/Hr = Pounds per Hour
Lbs/Ton = Pounds per ton cast

All emissions measurements taken in compartment number 7 (per prior agreement/request from State of Kentucky)

TABLE 4-4

SUMMARY OF SULFUR DIOXIDE EMISSION MEASUREMENTS

GALLATIN STEEL COMPANY
GHENT, KENTUCKY

EAF/LMF/CASTER BAGHOUSE

May 3, 2001

RUN NUMBER	HEAT NUMBERS	PRODUCTION	TEST TIME	INNER COMPARTMENT SO_2		OUTER COMPARTMENT SO_2		AVERAGE	
		TONS PER HOUR	Minutes	ppm	Lb/Hr	ppm	Lb/Hr	Lb/Hr	Lb/Ton
1	A17462, C16853, A17463	184.8	196	3.20	39.7	2.03	25.2	32.4	0.18
2	A17465, C16856, A17466	195.0	180	2.67	30.2	1.93	21.8	26.0	0.13
3	A17467, C16858, A17468	191.6	198	4.55	52.6	2.72	31.5	42.0	0.22
Averages[1]		190.35	574	3.50	41.13	2.24	26.27	33.70	0.18

[1] Time Weighted Average

Notes: PPM = Parts per Million V.V
Lb/Hr = Pounds per Hour
Lb/Ton = Pounds per ton cast

Run 1 = Compartments 7 (outer) and 19 (inner)
Run 2 = Compartments 2 (outer) and 14 (inner)
Run 3 = Compartments 4 (outer) and 16 (inner)

4.3 Testing Compromises

During performance of the velocity measurements of the baghouse inlet ducts, Ambient Air personnel encountered a port location error on Furnace "A" duct. Although the ports were located at positions 90 degrees from each other, one of these ports was located too close to Furnace Duct "C" and therefore inaccessible. After performing a traverse across the only accessible port on Furnace "A" duct, it was apparent that the velocity measurements were so similar as to negate any concerns of flow stratification. This test compromise at the time of the test and in the opinion of the test team would not affect the integrity of the test data and therefore testing was not halted.

APPENDICES

APPENDIX A - Sample Calculations - Gaseous Emissions

APPENDIX B - Instrument Calibration Data - Baghouse Testing

APPENDIX C - Gaseous Emission Data - Baghouse Testing

APPENDIX D - Flow Rates

APPENDIX E - Field Data Sheets

APPENDIX F - Production Data, Test Notification Letter

APPENDIX G - Project Participants

APPENDIX A

SAMPLE CALCULATIONS

Gaseous Emissions Sample Calculations

I. Concentrations as calculated from method 6c

A. Co, Average of initial and final system calibration bias check responses for the zero gas, ppm.

Run 1, SO2
Co = (0.0+0.0)/2 = 0.0

B. Cm, Average of initial and final system calibration bias check responses for the upscale calibration gas.

Run 1, SO2
Cm = (5.9+5.9)/2 = 5.9

C. Cma, Actual concentration of the upscale calibration gas ppm.

Run 1, SO2 - 5/3/01 @ 0931 (Point 1 of Run 1)
C = 1.61

D. Cgas, Effluent gas concentration, dry basis, ppm.

Run 1, SO2
Cgas = (Cbar-Co)(Cma/(Cm-Co))
= (1.61-0.0) x 5.9/(5.9 - 0.0)
= 1.61

A. SO2 Emissions

$$lb/hr. = \frac{(ppm)*(Mol.Wt.)}{385e6} * (flowrate)(60\ min/hr)$$

Example: Mol. Wt. = 64, ppm = 1.61, flowrate = 121875 SCFMD

lb/hr SO2 = 19.9

IV. Emission Rates (lb/ton)

Lb/ton = (inner SO_2 lbs/hr. + outer SO_2 lbs/hr.) / 2 / (tons per hour produced)
= (19.9 + 18.2) / 2 / 184.8
= 0.10

Note: The average of the inner and outer SO_2 emissions was used as the reported pounds per hour emitted.

Ambient Air Services, Inc.
Environmental Consultants

106 Ambient Air Way
Starke, Florida 32091

(904) 964 - 8440
(904) 964 - 6675 fax

EXAMPLE CALCULATIONS

Plant	Gallatin Steel
Location	Ghent, Kentucky
Stack	Cold Duct No. 1
Run Date	5-3-01
Run Number	1

1. Stack Pressure, PS

$PS = PB + (PG \div 13.6)$

$PB = 29.74$
$PG = -3.45$

$PS = 29.49$

Where:
PB = Barometric Pressure, inches Hg
PG = Static Pressure, stack, inches H2O

2. Meter Pressure, PM

$PM = PB + (DH \div 13.6)$

$DH = 1.741$

$PM = 29.87$

Where:
DH = Average meter orifice pressure differential, inches H2O

3. Volume Water Vapor, VWV

$VWV = 0.04707 \times VC$

$VWV = 1.323$

Where:
VC = Volume condensate, liquid volume plus gain in silica gel weight, grams

4. Metered Volume corrected to standard condition, Vstpd

$$Vstpd = \frac{17.65 \times VM \times PM \times Y}{TM}$$

$Vstpd = 62.442$

Where:
VM = Metered volume, meter conditions
PM = See equation 2
TM = Temperature of meter, degrees Rankin
Y = Meter correction factor

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EXAMPLE CALCULATIONS - CONTINUED

Plant	Gallatin Steel
Location	Ghent, Kentucky
Stack	Cold Duct No. 1
Run Date	5-3-01
Run Number	1

5. Total Volume of sample, VT

Where: VWV = See equation 3
Vstpd = See equation 4

VT = VWV + Vstpd

VT = 63.765

6. Fraction water vapor in gas stream, W

Where: VWV = See equation 3
VT = See equation 5

W= VWV ÷ VT

W= 0.021

7. Fraction Dry Air, FDA

Where: W = See equation 6

FDA= 1.0 - W

FDA= 0.979

8. Molecular Weight of stack gas, dry, MD

MD= (0.44 x %CO2) + (0.32 x %O2) + (0.28 x %N2) + (0.28 x %CO)

CO2=	0.0
O2=	20.9
N2=	79.1
CO=	0.0

MD= 28.84

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EXAMPLE CALCULATIONS - CONTINUED

Plant	Gallatin Steel
Location	Ghent, Kentucky
Stack	Cold Duct No. 1
Run Date	5-3-01
Run Number	1

9. Molecular weight of stack gas, stack conditions, MS

Where:
MD = See equation 8
W = See equation 6
FDA = See equation 7

$MS = (MD \times FDA) + (18 \times W)$

MD= 28.84

FDA= 0.979

W= 0.021

MS= 28.61

10. Specific Gravity of Gas, relative to air, GS

Where:
MS = See equation 9

GS= MS ÷ 28.99

GS= 0.987

11. Velocity of stack gas, feet per minute, U

Where:
CP = Pitot Coefficient
$\sqrt{H}$ = Average of the square roots of the velocity heads, in. H2O
TS = Temperature of the stack, degrees Rankin
PS = See equation 1
GS = See equation 10

$$U = 174 \times CP \times \sqrt{H} \times \sqrt{\frac{TS \times 29.92}{GS \times PS}}$$

U= 4821.5 FPM

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EXAMPLE CALCULATIONS - CONTINUED

Plant	Gallatin Steel
Location	Ghent, Kentucky
Stack	Cold Duct No. 1
Run Date	5-3-01
Run Number	1

12. Stack Gas Flow Rate, Stack conditions, cfm, QS

Where:
AS = Cross sectional area of stack at sampling location, sq.ft.
U = See equation 11

$$QS = U \times AS$$

QS= 969420 ACFM

13. Stack Gas Flow Rate, dry, QD

Where:
QS = See equation 12
FDA = See equation 7

$$QD = QS \times FDA$$

QD= 949306 ACFMD

14. Stack Gas Flow Rate, STP, dry, Qstpd

Where:
QD = See equation 13
PS = See equation 1
TS = Temperature of stack, degrees Rankin

$$Qstpd = \frac{528 \times QD \times PS}{TS \times 29.92}$$

Qstpd= 881409 SCFMD

15. Stack Gas Flow Rate, STP, wet, Qstpw

Where:
Qstpd = See equation 14
FDA= See equation 7

$$Qstpw = \frac{Qstpd}{FDA}$$

Qstpw= 900084 SCFMW

APPENDIX B

INSTRUMENT CALIBRATION DATA

- Calibration Gas Certificates
  - 93.8 ppm NO_x
  - 54.2 ppm NO_x
  - 24.9 ppm NO_x
  - 10.21 ppm NO_x
  - 5.94 ppm SO_2
  - 12.07 ppm SO_2

- Calibration Drift/Error
  - NO_x Compartment 7
  - SO_2 Inner Compartments
  - SO_2 Outer Compartments

- Field Test Log

SPECTRA GASES INC.
3434 Route 22 West • Branchburg, NJ 08876 USA Tel: (908) 252-9300 • (800) 932-0624 • Fax: (908) 252-0811
Shipped From: 60 Industrial Drive • Alpha, NJ 08865

CERTIFICATE OF ANALYSIS

EPA PROTOCOL MIXTURE
PROCEDURE # : G1

CUSTOMER:	Ambient Air Service	CYLINDER # :	CC18332
SGI ORDER # :	157906	CYLINDER PRES:	2000 PSIG
ITEM# :	1	CGA OUTLET:	660
P.O.# :	82100-1		

CERTIFICATION DATE: 9/7/2000
EXPIRATION DATE: 9/6/2002

CERTIFICATION HISTORY

COMPONENT	DATE OF ASSAY	MEAN CONCENTRATION	CERTIFIED CONCENTRATION	ANALYTICAL ACCURACY
Carbon Monoxide	8/25/2000 9/7/2000	9.953 ppm 10.04 ppm	10.00 ppm	+/- 1%
Nitric Oxide	8/25/2000 9/6/2000	10.20 ppm 10.22 ppm	10.21 ppm	+/- 1%
NOx			10.21 ppm	Reference Value Only

BALANCE Nitrogen

PREVIOUS CERTIFICATION DATES: None

REFERENCE STANDARDS

COMPONENT	SRM/NTRM#	CYLINDER#	CONCENTRATION
Carbon Monoxide	GMIS-1	CC118636	9.93 ppm
Nitric Oxide	GMIS-1	CC117561	20.16 ppm

INSTRUMENTATION

COMPONENT	MAKE/MODEL	SERIAL #	DETECTOR	CALIBRATION DATE(S)
Carbon Monoxide	Nicolet 560	ADL9600109	FTIR	8/30/2000
Nitric Oxide	Teco 42C	42C-64942-345	Chemi	8/15/2000

THIS STANDARD IS NIST TRACEABLE. IT WAS CERTIFIED ACCORDING TO THE EPA PROTOCOL PROCEDURES.
DO NOT USE THIS STANDARD IF THE CYLINDER PRESSURE IS LESS THAN 150 PSIG.

ANALYST: _____ DATE: 9/7/2000
FRED PIKULA

SPECTRA GASES INC.
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Shipped From: 80 Industrial Drive • Alpha, NJ 08865

CERTIFICATE OF ANALYSIS

EPA PROTOCOL MIXTURE
PROCEDURE # : G1

CUSTOMER:	Gallatin Steel Company	CYLINDER # :	CC109962
SGI ORDER # :	144936	CYLINDER PRES:	2000 PSIG
ITEM# :	2	CGA OUTLET:	660
P.O.# :	72399-1		

CERTIFICATION DATE: 8/10/99
EXPIRATION DATE: 8/10/2001

CERTIFICATION HISTORY

COMPONENT	DATE OF ASSAY	MEAN CONCENTRATION	CERTIFIED CONCENTRATION	ANALYTICAL ACCURACY
Carbon Monoxide	8/2/99 8/10/99	24.97 ppm 25.13 ppm	25.1 ppm	+/- 1%
Nitric Oxide	8/2/99 8/10/99	24.79 ppm 24.88 ppm	24.8 ppm	+/- 1%
NOx			24.9 ppm	Reference Value Only

BALANCE Nitrogen

PREVIOUS CERTIFICATION DATES: None

REFERENCE STANDARDS

COMPONENT	SRM/NTRM#	CYLINDER#	CONCENTRATION
Carbon Monoxide	NTRM-81679	CC88366	97.4 ppm
Nitric Oxide	NTRM-81684	CC79984	98.6 ppm

INSTRUMENTATION

COMPONENT	MAKE/MODEL	SERIAL #	DETECTOR	CALIBRATION DATE(S)
Carbon Monoxide	Horiba VIA-510	570423011	NDIR	7/23/99
Nitric Oxide	Teco 10	10AR-34979-249	Chemi	7/20/99

THIS STANDARD WAS CERTIFIED ACCORDING TO THE EPA PROTOCOL PROCEDURES.
DO NOT USE THIS STANDARD IF THE CYLINDER PRESSURE IS LESS THAN 150 PSIG.

ANALYST: _____ DATE: 8/10/99
FRED PIKULA

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CERTIFICATE OF ANALYSIS

EPA PROTOCOL MIXTURE
PROCEDURE # : G1

CUSTOMER: Gallatin Steel Company
SGI ORDER # : 144936
ITEM# : 4
P.O.# : 72309-1

CYLINDER # : CC110128
CYLINDER PRES: 2000 PSIG
CGA OUTLET: 660

CERTIFICATION DATE: 8/10/99
EXPIRATION DATE: 8/10/2001

CERTIFICATION HISTORY

COMPONENT	DATE OF ASSAY	MEAN CONCENTRATION	CERTIFIED CONCENTRATION	ANALYTICAL ACCURACY
Carbon Monoxide	8/2/99 8/10/99	54.69 ppm 54.70 ppm	54.7 ppm	+/- 1%
Nitric Oxide	8/2/99 8/10/99	53.74 ppm 54.15 ppm	53.9 ppm	+/- 1%
NOx			54.2 ppm	Reference Value Only

BALANCE Nitrogen

PREVIOUS CERTIFICATION DATES: None

REFERENCE STANDARDS

COMPONENT	SRM/NTRM#	CYLINDER#	CONCENTRATION
Carbon Monoxide	NTRM-81679	CC88366	97.4 ppm
Nitric Oxide	NTRM-81684	CC79984	98.6 ppm

INSTRUMENTATION

COMPONENT	MAKE/MODEL	SERIAL #	DETECTOR	CALIBRATION DATE(S)
Carbon Monoxide	Horiba VIA-510	570423011	NDIR	7/23/99
Nitric Oxide	Teco 10	10AR-34978-249	Chemi	7/20/99

THIS STANDARD WAS CERTIFIED ACCORDING TO THE EPA PROTOCOL PROCEDURES.
DO NOT USE THIS STANDARD IF THE CYLINDER PRESSURE IS LESS THAN 150 PSIG.

ANALYST: FRED PIKULA **DATE:** 8/10/99

For Technical Information Call
1-800-752-1597

NOX

AIR PRODUCTS

Air Products and Chemicals, Inc. * 12722 S. Wentworth Avenue, Chicago, IL 60628

ISO CERTIFICATION: 9002

CERTIFICATE OF ANALYSIS: EPA PROTOCOL GAS STANDARD

PERFORMED ACCORDING TO EPA TRACEABILITY PROTOCOL FOR ASSAY AND CERTIFICATION OF GASEOUS CALIBRATION STANDARDS (PROCEDURE #G1)

Customer:
AIR PRODUCTS & CHEMICALS, INC.
DORRAY JENSEN
5837 W. 5TH STREET
JACKSONVILLE FL 32254-1509

Order No: 854-054914-01
Batch No: 861-59188
PO:
Release:

Cylinder No: SG9110934
Bar Code No: DUH853
Cylinder Pressure*: 2000 psig
Certification Date: 06/29/1999
Expiration Date: 06/29/2001

CERTIFIED CONCENTRATION		REFERENCE STANDARDS			ANALYTICAL INSTRUMENTATION			
Component	Certified Concentration	Cylinder Number	Standard Type	Standard Concentration	Instrument Make/Model	Serial Number	Last Calibration	Measurement Principal
NITRIC OXIDE	[redacted]	SG9128616BAL	GMIS	150.1 PPM	THERMO ENVIRO	52829293	06/18/99	CHEMILUMINESCENCE
SULFUR DIOXIDE	79.5 ±1.2 PPM	SG9150992BAL	NTRM	169.7 PPM	BOVAR 721M PBO	8327-3	06/12/99	NON DISPERSIVE ULTRAVIOLET

NO2 (Reference Value Only): .800 PPM
NITROGEN Balance Gas
* STANDARD SHOULD NOT BE USED BELOW 150 PSIG

$NO_x = 93.8$

Analyst: JULIAN K. SEGBAWU (16921)

Approved By: James Lass

Pub. No. 320-9709

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Shipped From: 80 Industrial Drive • Alpha, NJ 08865

CERTIFICATE OF ANALYSIS

EPA PROTOCOL MIXTURE

PROCEDURE # : G1

CUSTOMER: Ambient Air Services
SGI ORDER # : 160806
ITEM# : 1
P.O.# : Verbal

CYLINDER # : CC20230
CYLINDER PRES: 1500 PSIG
CGA OUTLET: 660

CERTIFICATION DATE: 11/13/2000
EXPIRATION DATE: 5/13/2001

CERTIFICATION HISTORY

COMPONENT	DATE OF ASSAY	MEAN CONCENTRATION	CERTIFIED CONCENTRATION	ANALYTICAL ACCURACY
Sulfur Dioxide	10/23/2000 11/13/2000	5.916 ppm 5.966 ppm	5.94 ppm	+/- 2%

BALANCE Air

PREVIOUS CERTIFICATION DATES: None

REFERENCE STANDARDS

COMPONENT	SRM/NTRM#	CYLINDER#	CONCENTRATION
Sulfur Dioxide	GMIS-1	CC106646	24.67 ppm

INSTRUMENTATION

COMPONENT	MAKE/MODEL	SERIAL #	DETECTOR	CALIBRATION DATE(S)
Sulfur Dioxide	Nicolet 560	ADL9600109	FTIR	10/24/2000

THIS STANDARD IS NIST TRACEABLE. IT WAS CERTIFIED ACCORDING TO THE EPA PROTOCOL PROCEDURES.
DO NOT USE THIS STANDARD IF THE CYLINDER PRESSURE IS LESS THAN 150 PSIG.

ANALYST: FP
FRED PIKULA

DATE: 11/13/2000

SPECTRA GASES INC.
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Shipped From: 80 Industrial Drive • Alpha, NJ 08865

CERTIFICATE OF ANALYSIS

EPA PROTOCOL MIXTURE

PROCEDURE # : G1

CUSTOMER: Ambient Air Services
SGI ORDER # : 0005686
ITEM# : 1
P.O.# : 9589

CYLINDER # : CC85129
CYLINDER PRES: 2000 PSIG
CGA OUTLET: 660

CERTIFICATION DATE: 4/27/2001
EXPIRATION DATE: 10/27/2001

CERTIFICATION HISTORY

COMPONENT	DATE OF ASSAY	MEAN CONCENTRATION	CERTIFIED CONCENTRATION	ANALYTICAL ACCURACY
Sulfur Dioxide	6/29/2000 4/27/2001	12.12 ppm 12.03 ppm	12.07 ppm	+/- 1%

BALANCE Nitrogen

PREVIOUS CERTIFICATION DATES: None

REFERENCE STANDARDS

COMPONENT	SRM/NTRM#	CYLINDER#	CONCENTRATION
Sulfur Dioxide	GMIS-1	CC113875	19.78 ppm

INSTRUMENTATION

COMPONENT	MAKE/MODEL	SERIAL #	DETECTOR	CALIBRATION DATE(S)
Sulfur Dioxide	Horiba VIA-510	851221093	NDIR	4/19/2001

THIS STANDARD WAS CERTIFIED ACCORDING TO THE EPA PROTOCOL PROCEDURES.
DO NOT USE THIS STANDARD IF THE CYLINDER PRESSURE IS LESS THAN 150 PSIG.

ANALYST: _____
FRED PIKULA

DATE: 4/27/2001

GALLATIN STEEL COMPANY

GHENT, KENTUCKY

SUMMARY OF NOX CALIBRATIONS

3-May-01

INSTRUMENT RANGE, PPM	100			
CALIBRATION GAS PPM	5/3/2001 8:00 INITIAL CALIBRATION	5/3/2001 13:05 END RN 1	5/3/2001 18:10 END RUN 2	5/3/01 22:17 END RUN 3
0.0	-0.7	-0.7	-0.7	-0.8
93.8	92.5	N/A	N/A	N/A
54.2	56.0	56.2	53.3	54.3
24.9	25.4	N/A	N/A	N/A
10.0	9.8	N/A	N/A	N/A
CALIBRATION ERROR		((INSTRUMENT RESPONSE-CALIBRATION GAS VALUE)/INSTRUMENT RANGE)X100		
0.0	-0.7	-0.7	-0.7	-0.8
93.8	-1.3	N/A	N/A	N/A
54.2	1.8	2.0	-2.7	0.1
24.9	0.5	N/A	N/A	N/A
10.0	-0.2	N/A	N/A	N/A
CALIBRATION DRIFT		((FINAL CALIBRATION - INITIAL CALIBRATION)/INSTRUMENT RANGE)X100		
0.0	N/A	0.0	0.0	0.0
93.8	N/A	N/A	N/A	N/A
54.2	N/A	0.1	-2.9	-1.7
24.9	N/A	N/A	N/A	N/A
10.0	N/A	N/A	N/A	N/A

ZERO BIAS CHECKS		(SAMPLE SYSTEM-DIRECT)/RANGEX100		
SAMPLE ZERO	DIRECT ZERO	BIAS		
N/A	N/A	N/A	INITIAL	
N/A	N/A	N/A	FINAL	ALL CAL
CALIBRATION BIAS CHECKS				GASES INJECTED
CALIBRATION GAS, PPM	N/A			TO PROBE TIP ONLY
SAMPLE	DIRECT	BIAS		
N/A	N/A	N/A	INITIAL	
N/A	N/A	N/A	FINAL	

GALLATIN STEEL COMPANY

GHENT, KENTUCKY

SUMMARY OF SO2 CALIBRATIONS - INNER COMPARTMENTS

3-May-01

INSTRUMENT RANGE, PPM	15			
CALIBRATION GAS PPM	5/3/2001 8:30 INITIAL CALIBRATION	5/3/2001 7:10 PRE RUN 1	5/3/2001 12:45 END RUN 1	5/3/01 17:50 END RUN 2
0.0	0.0	0.0	0.1	0.1
12.1	12.3	N/A	N/A	N/A
5.9	5.9	5.9	5.8	5.8
CALIBRATION ERROR		((INSTRUMENT RESPONSE-CALIBRATION GAS VALUE)/INSTRUMENT RANGE)X100		
0.0	-0.1	-0.1	0.4	0.3
12.1	1.5	N/A	N/A	N/A
5.9	-0.1	-0.1	-0.7	-0.7
CALIBRATION DRIFT		((FINAL CALIBRATION - INITIAL CALIBRATION)/INSTRUMENT RANGE)X100		
0.0	N/A	0.0	0.5	-0.1
12.1	N/A	N/A	N/A	N/A
5.9	N/A	-0.1	-0.6	0.1

ZERO BIAS CHECKS		(SAMPLE SYSTEM-DIRECT)/RANGEX100		
SAMPLE ZERO	DIRECT ZERO	BIAS		
N/A	N/A	N/A	INITIAL	
N/A	N/A	N/A	FINAL	ALL CAL
CALIBRATION BIAS CHECKS				GASES INJECTED TO PROBE TIP ONLY
CALIBRATION GAS, PPM	N/A			
SAMPLE	DIRECT	BIAS		
N/A	N/A	N/A	INITIAL	
N/A	N/A	N/A	FINAL	

GALLATIN STEEL COMPANY

GHENT, KENTUCKY

SUMMARY OF SO2 CALIBRATIONS - INNER COMPARTMENTS

3-May-01

INSTRUMENT RANGE, PPM	15			
CALIBRATION GAS PPM	5/3/2001 8:30 INITIAL CALIBRATION	5/3/2001 21:50 END RUN 3		
0.0	0.0	0.0	N/A	N/A
12.1	12.3	N/A	N/A	N/A
5.9	5.9	5.9	N/A	N/A
CALIBRATION ERROR		**((INSTRUMENT RESPONSE-CALIBRATION GAS VALUE)/INSTRUMENT RANGE)X100**		
0.0	-0.1	0.1	N/A	N/A
12.1	1.5	N/A	N/A	N/A
5.9	-0.1	0.0	N/A	N/A
CALIBRATION DRIFT		**((FINAL CALIBRATION - INITIAL CALIBRATION)/INSTRUMENT RANGE)X100**		
0.0	N/A	0.2	N/A	N/A
12.1	N/A	N/A	N/A	N/A
5.9	N/A	0.1	N/A	N/A

ZERO BIAS CHECKS		(SAMPLE SYSTEM-DIRECT)/RANGEX100		
SAMPLE ZERO	DIRECT ZERO	BIAS		
N/A	N/A	N/A	INITIAL	
N/A	N/A	N/A	FINAL	ALL CAL
CALIBRATION BIAS CHECKS				GASES INJECTED TO PROBE TIP ONLY
CALIBRATION GAS, PPM	N/A			
SAMPLE	DIRECT	BIAS		
N/A	N/A	N/A	INITIAL	
N/A	N/A	N/A	FINAL	

GALLATIN STEEL COMPANY

GHENT, KENTUCKY

SUMMARY OF SO2 CALIBRATIONS - OUTER COMPARTMENTS

3-May-01

INSTRUMENT RANGE, PPM	15			
CALIBRATION GAS PPM	5/3/2001 8:30 INITIAL CALIBRATION	5/3/2001 7:10 PRE RUN 1	5/3/2001 12:45 END RUN 1	5/3/01 17:50 END RUN 2
0.0	-0.2	-0.1	-0.1	-0.1
12.1	12.4	N/A	N/A	N/A
5.9	5.9	5.9	5.7	5.8
CALIBRATION ERROR		((INSTRUMENT RESPONSE-CALIBRATION GAS VALUE)/INSTRUMENT RANGE)X100		
0.0	-1.1	-0.3	-0.9	-0.3
12.1	2.1	N/A	N/A	N/A
5.9	-0.3	-0.5	-1.5	-0.7
CALIBRATION DRIFT		((FINAL CALIBRATION - INITIAL CALIBRATION)/INSTRUMENT RANGE)X100		
0.0	N/A	0.7	-0.5	0.5
12.1	N/A	N/A	N/A	N/A
5.9	N/A	-0.2	-1.0	0.8

ZERO BIAS CHECKS		(SAMPLE SYSTEM-DIRECT)/RANGEX100		
SAMPLE ZERO	DIRECT ZERO	BIAS		
N/A	N/A	N/A	INITIAL	
N/A	N/A	N/A	FINAL	ALL CAL
CALIBRATION BIAS CHECKS				GASES INJECTED
CALIBRATION GAS, PPM	N/A			TO PROBE TIP ONLY
SAMPLE	DIRECT	BIAS		
N/A	N/A	N/A	INITIAL	
N/A	N/A	N/A	FINAL	

GALLATIN STEEL COMPANY

GHENT, KENTUCKY

SUMMARY OF SO2 CALIBRATIONS - OUTER COMPARTMENTS

3-May-01

INSTRUMENT RANGE, PPM	15			
CALIBRATION GAS PPM	5/3/2001 8:30 INITIAL CALIBRATION	5/3/2001 21:50 END RUN 3		
0.0	-0.2	-0.1	N/A	N/A
12.1	12.4	N/A	N/A	N/A
5.9	5.9	5.8	N/A	N/A
CALIBRATION ERROR		((INSTRUMENT RESPONSE-CALIBRATION GAS VALUE)/INSTRUMENT RANGE)X100		
0.0	-1.1	-0.8	N/A	N/A
12.1	2.1	N/A	N/A	N/A
5.9	-0.3	-0.7	N/A	N/A
CALIBRATION DRIFT		((FINAL CALIBRATION - INITIAL CALIBRATION)/INSTRUMENT RANGE)X100		
0.0	N/A	0.3	N/A	N/A
12.1	N/A	N/A	N/A	N/A
5.9	N/A	-0.3	N/A	N/A

ZERO BIAS CHECKS		(SAMPLE SYSTEM-DIRECT)/RANGEX100		
SAMPLE ZERO	DIRECT ZERO	BIAS		
N/A	N/A	N/A	INITIAL	
N/A	N/A	N/A	FINAL	ALL CAL
CALIBRATION BIAS CHECKS				GASES INJECTED TO PROBE TIP ONLY
CALIBRATION GAS, PPM	N/A			
SAMPLE	DIRECT	BIAS		
N/A	N/A	N/A	INITIAL	
N/A	N/A	N/A	FINAL	

GALLATIN yellow dilut

5-3-01 AJL

SO_2: 0-15 ppm — yellow → CH 3 & 7, 4 & 8 ← black
NO_x: 0-100 ppm — CH 2 & 6
CO: 0-100 ppm — CH 1 & 5

TIME	PARAM	STD. CONC	DataLogger	Notes
0530	SO_2-1	Ø	0.025 V	Channel #7
0530	SO_2-2	Ø	0.025 V	" #8
0558	SO_2-1	5.94	0.401 V	
0558	SO_2-2	5.94	0.400 V	
0645	SO_2-1	12.07	0.810 V	
0645	SO_2-2	12.07	0.812 V	
0800	Both SO_2 — ONLINE		———	{ SO_2-1: Comp. 7, yellow { SO_2-2: Comp. 19, black
0830	NO_x	93.8	9.60 V = 92.6	Channel #6
0855	NO_x	54.2	5.95 = 56.0	
0855	CO	54.7	0.531 = 55.1	Channel #5
0908	CO	25.1	0.252 24.4	
0908	NO_x	24.9	2.872 = 25.3	
0916	CO	10.0	0.115 9.3	CO - NO_x
0916	NO_x	10.21	1.317 9.8	
0920	CO	Ø	0.039 1.0	
0920	NO_x	Ø	0.265 = -1.0	
0925	NO_x — ONLINE		———	
0925	CO — ONLINE		———	
0938-1243	(RUN 1)			3 Heats
1248	SO_2-1	Ø	0.02 ppm	W
1248	SO_2-2	Ø	-0.15 ppm	cK
1255	SO_2-1	5.94	5.75	
1255	SO_2-2	5.94	5.51	
1302	Both SO_2 — ONLINE		———	(still scenario #1)
1310	NO_x	Ø	0.10 -0.1	
1310	CO	Ø	0.33 -0.2	

Yellow dilution umbilical =
Black dilution umbilical =

TIME	PARAM		STD. CONC.	DataLogger	Notes
1320	CO		54.7	~~52.6~~ 56.2	
1317	NO_x		54.2	57.0 ✓	
1325	CO	—	ONLINE	—	
1325	NO_x	—	ONLINE	—	
1430	SO_2-1		ϕ	0.028	Recheck
1430	SO_2-2		ϕ	0.0	"
1442	SO_2-1	YELLOW	5.94	5.98	"
1442	SO_2-2	BLACK	5.94	5.88	"
1453	SO_2-1	—	ONLINE	—	{ Comp. 2
1453	SO_2-2				{ Comp. 14
1458			start Run 2		
1752			END "		
1756	SO_2-1		ϕ	0.024	
1756	SO_2-2		ϕ	-.056	
1804	SO_2-2		5.94	5.92	
1804	SO_2-2		5.94	5.84	
1811	CO		54.7	54.05 58.8	
1810	NO_x		54.2	54.2 53.3	
1815	CO		ϕ	0.15 -0.2	
1815	NO_x		ϕ	0.07 -0.8	
1836	SO_2-1	—	ONLINE	—	{ Comp. 4 yellow
1836	SO_2-2				{ Comp. 16 black
			Start Run 3		
2142			End Run 3		

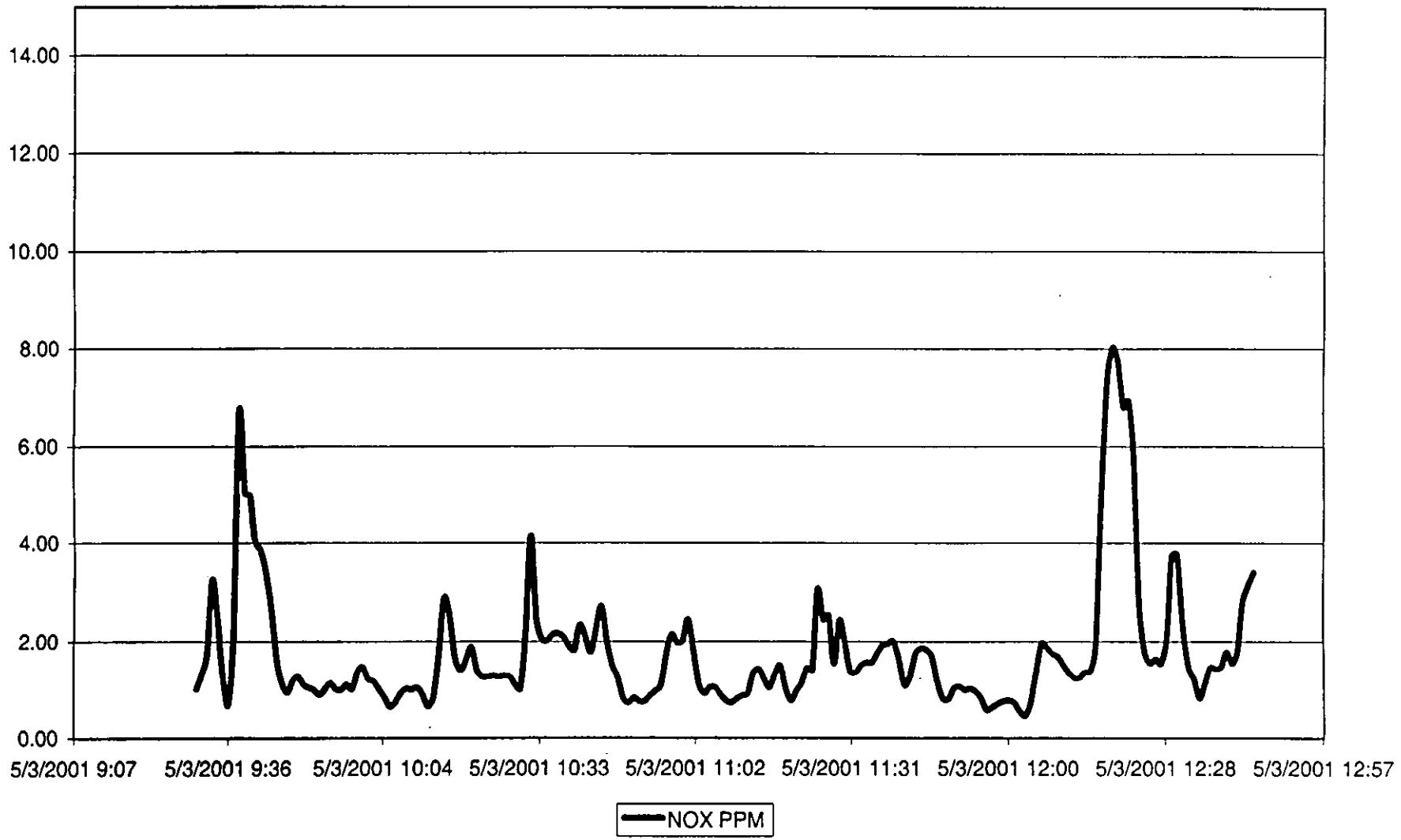
TIME	PARAM	STD. CONC	Data Logger	Notes
2200	SO_2-1	∅	-0.024	
2200	SO_2-2	∅	-0.176	
2210	SO_2-1	5.94	5.95	
2210	SO_2-2	5.94	5.83	
2217	CO	54.7	54.2	58.3
2217	NO_x	54.2	55.2	54.3
2221	CO	∅	-0.15	-0.1
2221	NO_x	∅	0.12	-0.7

APPENDIX C

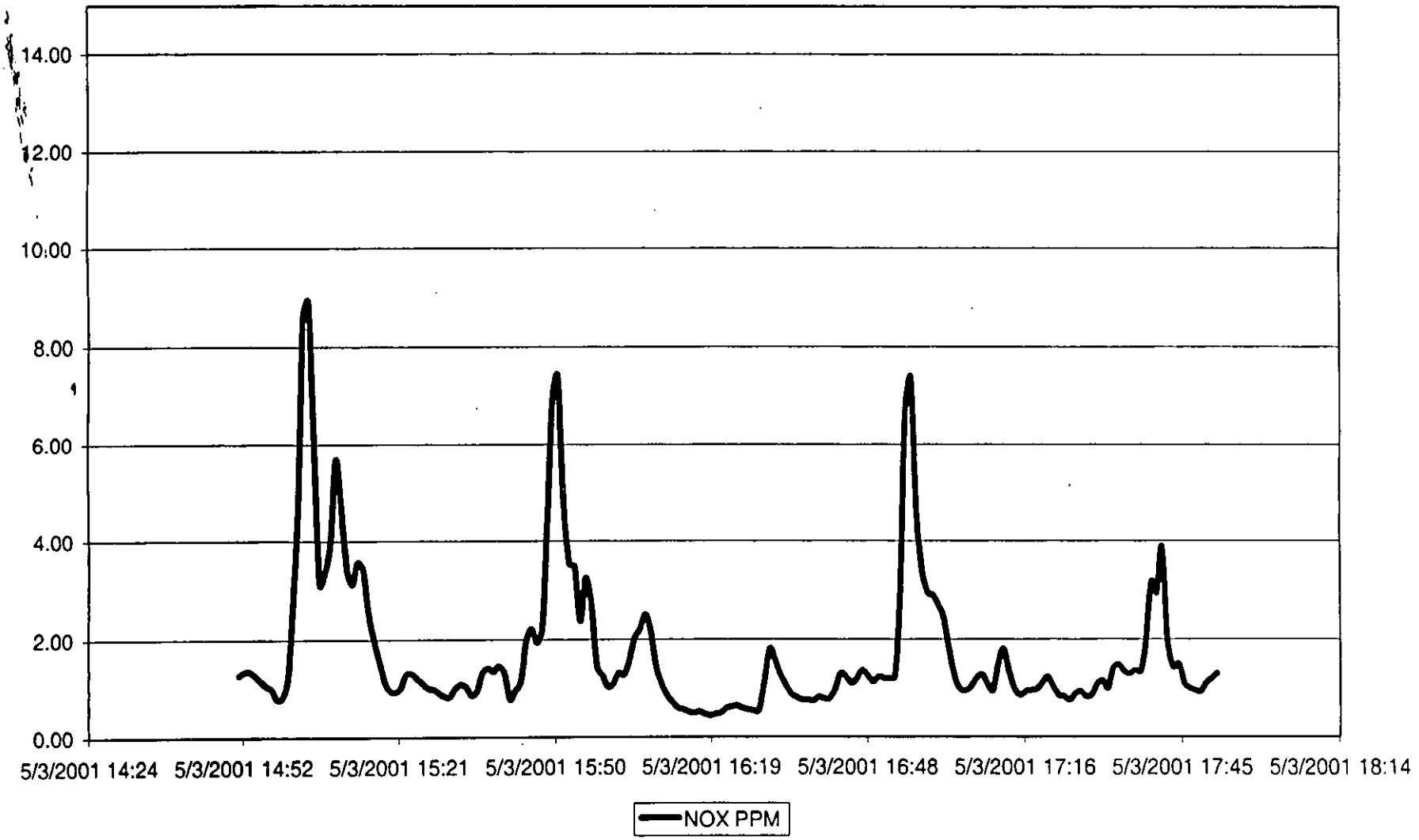
GASEOUS EMISSION DATA
SO_2 and NO_x

- DATA GRAPHS
  - NO_x - Run 1, Run 2, Run 3
  - SO_2 - Run 1, Run 2, Run 3
- DATA SUMMARY
  - 5/3/01 05:00 - 5/3/01 22:45

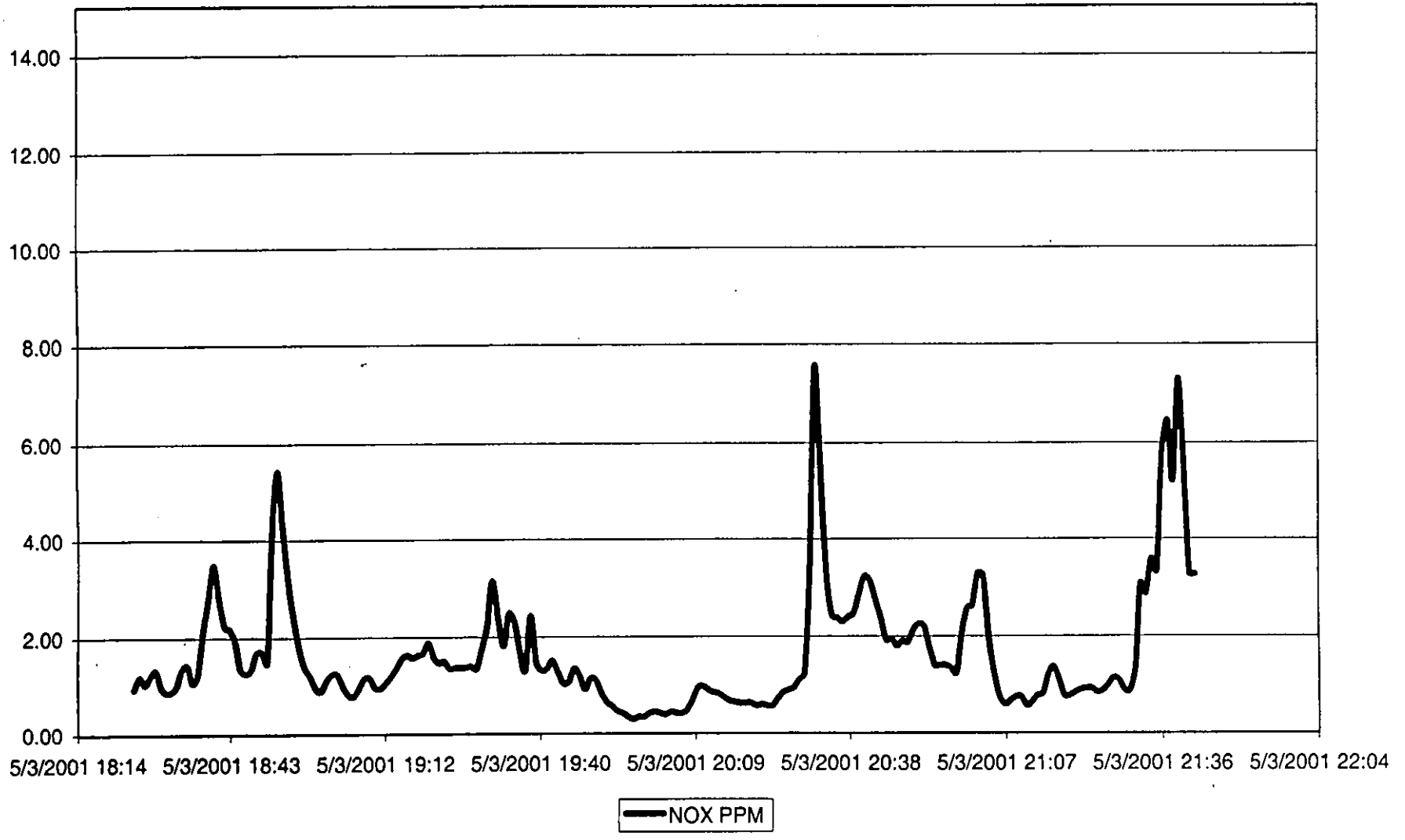
GALLATIN STEEL NOX
RUN 1



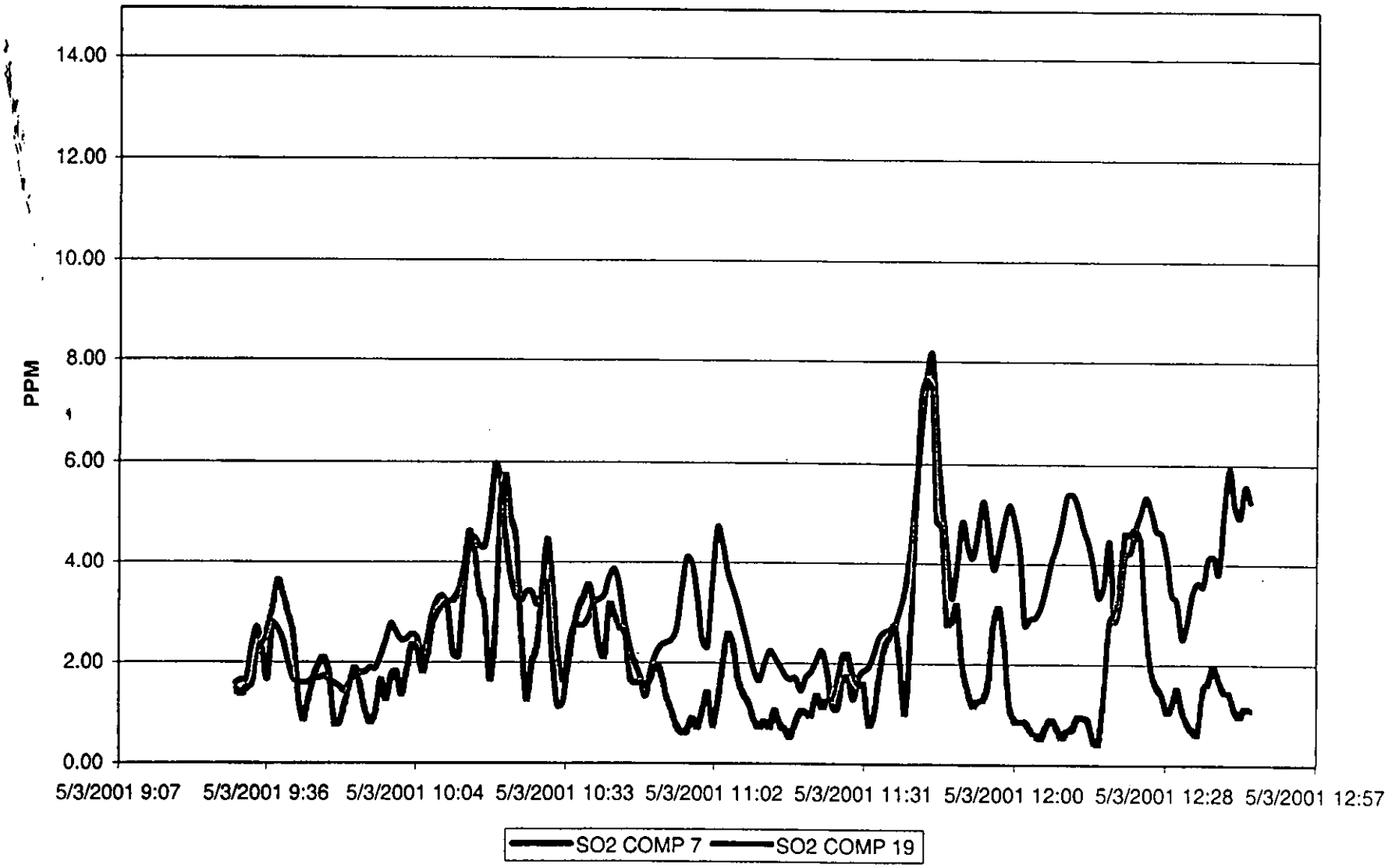
GALLATIN STEEL NOX
RUN 2

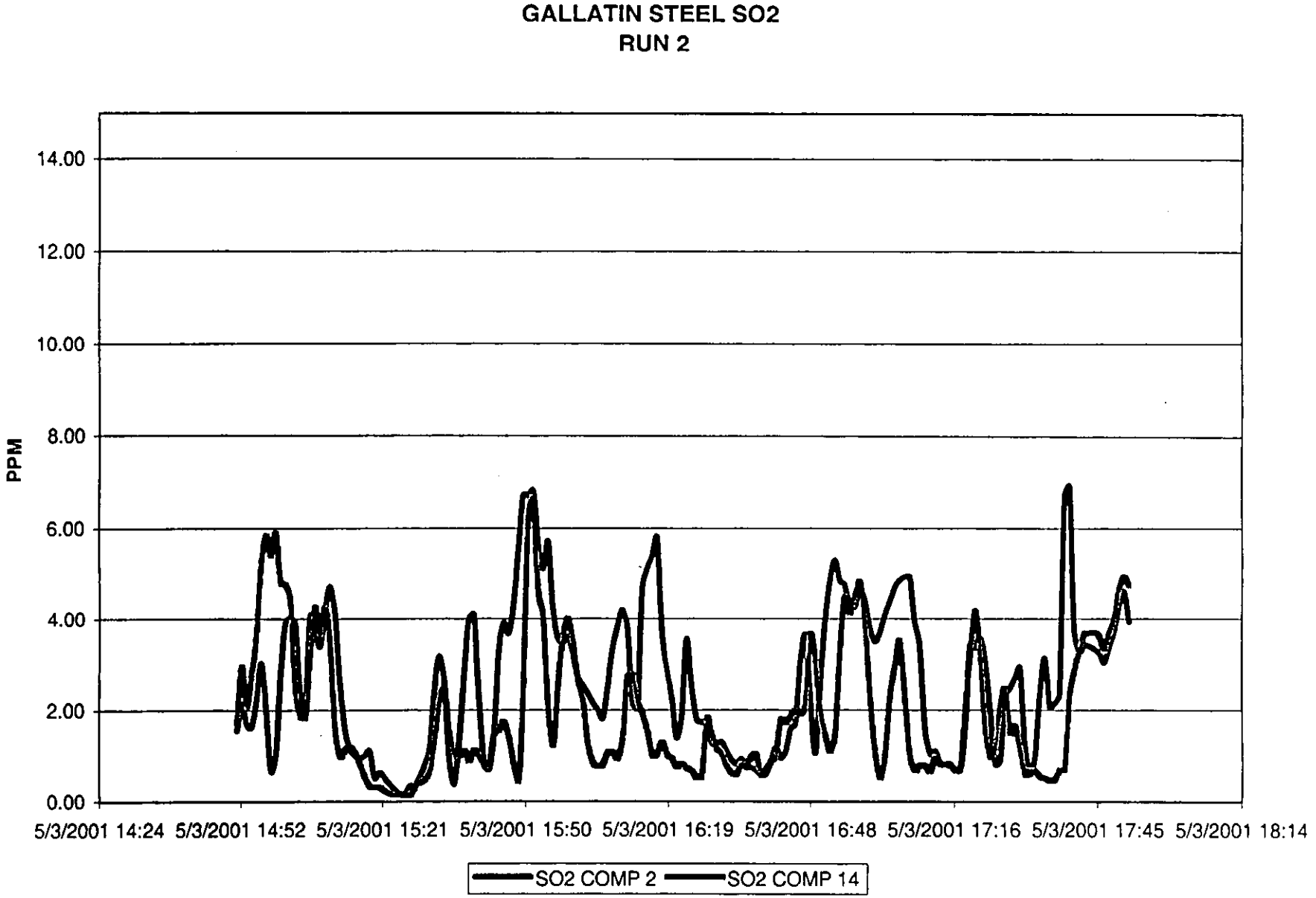


GALLATIN STEEL NOX
RUN 3

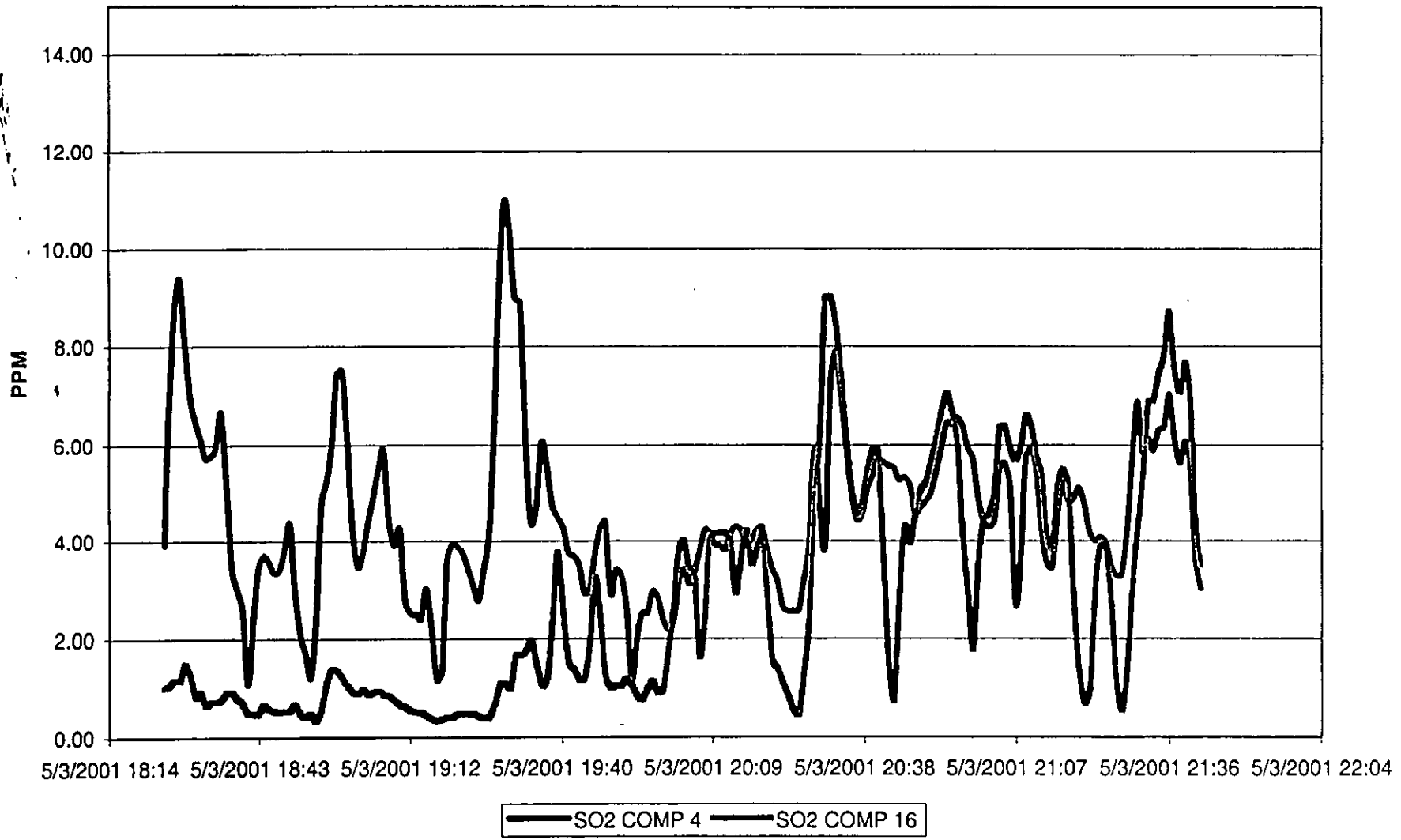


GALLATIN STEEL SO2 RUN 1




GALLATIN STEEL SO2
RUN 2
PPM
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
5/3/2001 14:24
5/3/2001 14:52
5/3/2001 15:21
5/3/2001 15:50
5/3/2001 16:19
5/3/2001 16:48
5/3/2001 17:16
5/3/2001 17:45
5/3/2001 18:14
SO2 COMP 2
SO2 COMP 14

GALLATIN STEEL SO2
RUN 3



GALLATIN STEEL SO2/NOX COMPLIANCE TEST

TIME	OBSERVED CONCENTRATION PPM			COMMENTS			CALIBRATION CORRECTIONS						CORRECTED PPM VALUES			FLOW MEASURMENTS SCFM						MASS EMISSIONS				EMISSION FACTOR		
							NOX 7		SO2 IN		SO2 OUT																	
	NOX COMP 7	SO2 IN	SO2 OUT	NOX	SO2	RUN NUMBER	0.0	84.3	0.0	0.0	-0.1	0.0	NOX - 7	SO2 IN	SO2 OUT	COLD-1	COLD-2	LIME	FURNACE A	FURNACE C	TOTAL	NOX LB/HR	SO2 IN LB/HR	SO2 OUT LB/HR	AVERAGE SO2 LB/HR	PRODUCTION TONS/HR	NOX LB/TON	SO2 LB/TON
5/3/2001 5:00	-3.35	1.56	2.10	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.50	1.56	2.18													
5/3/2001 5:01	-3.30	1.32	1.98	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.46	1.33	2.07													
5/3/2001 5:02	-2.95	1.75	2.01	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.02	1.76	2.10													
5/3/2001 5:03	-3.10	1.97	2.14	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.36	1.98	2.23													
5/3/2001 5:04	-3.30	3.48	2.48	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.36	3.51	2.48													
5/3/2001 5:05	-3.35	5.02	3.77	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.50	5.04	3.85													
5/3/2001 5:06	-3.35	2.97	4.06	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.50	2.98	4.16													
5/3/2001 5:07	-3.29	2.44	2.35	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.36	2.43	2.43													
5/3/2001 5:08	-3.39	2.53	1.52	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.36	2.54	1.61													
5/3/2001 5:09	-3.15	2.81	2.21	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.33	2.82	2.30													
5/3/2001 5:10	-3.05	3.19	2.98	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.24	3.20	3.08													
5/3/2001 5:11	-3.35	3.88	3.01	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.50	3.89	3.09													
5/3/2001 5:12	-3.13	4.88	5.01	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.28	4.89	5.06													
5/3/2001 5:13	-3.20	5.88	5.06	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.46	5.87	5.13													
5/3/2001 5:14	-3.26	6.39	2.15	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.50	6.31	2.24													
5/3/2001 5:15	-3.35	8.61	2.99	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.50	8.52	3.04													
5/3/2001 5:16	-3.35	7.67	3.77	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.50	7.66	5.43													
5/3/2001 5:17	-3.35	8.19	5.91	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.50	8.21	8.56													
5/3/2001 5:18	-3.35	10.25	11.07	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.50	10.27	11.19													
5/3/2001 5:19	2.42	16.65	12.20	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	5.00	16.86	12.32													
5/3/2001 5:20	-0.83	11.73	9.30	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.09	11.75	9.62													
5/3/2001 5:21	-0.85	12.12	6.42	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.13	12.14	6.46													
5/3/2001 5:22	-0.85	12.26	5.09	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	12.28	5.07													
5/3/2001 5:23	-0.85	12.42	4.30	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	12.44	4.37													
5/3/2001 5:24	-0.85	11.29	3.18	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	11.31	3.26													
5/3/2001 5:25	-0.85	10.77	2.82	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	10.79	2.91													
5/3/2001 5:26	-0.84	11.95	2.37	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	11.97	2.46													
5/3/2001 5:27	-0.84	12.01	2.17	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	12.03	2.26													
5/3/2001 5:28	-0.85	11.74	2.01	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	11.76	2.10													
5/3/2001 5:29	-0.83	8.87	1.73	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	8.89	1.82													
5/3/2001 5:30	-0.85	11.41	5.79	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	11.43	5.88													
5/3/2001 5:31	-0.83	7.23	5.88	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	7.25	5.95													
5/3/2001 5:32	-0.84	1.51	1.23	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	1.52	1.32													
5/3/2001 5:33	-0.83	0.48	0.48	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	0.50	0.56													
5/3/2001 5:34	-0.83	0.29	0.34	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	0.30	0.44													
5/3/2001 5:35	-0.85	0.24	0.39	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	0.25	0.40													
5/3/2001 5:36	-0.84	0.21	0.30	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.14	0.22	0.36													
5/3/2001 5:37	-0.85	0.21	0.33	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	0.22	0.35													
5/3/2001 5:38	-0.84	0.21	0.34	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	0.22	0.34													
5/3/2001 5:39	-0.83	0.19	0.33	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	0.20	0.33													
5/3/2001 5:40	-0.84	0.19	0.33	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.14	0.20	0.33													
5/3/2001 5:41	-0.83	0.18	0.31	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	0.19	0.32													
5/3/2001 5:42	-0.83	0.18	0.31	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	0.19	0.31													
5/3/2001 5:43	-0.83	0.18	0.31	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	0.19	0.31													
5/3/2001 5:44	-0.83	0.17	0.30	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	0.18	0.30													
5/3/2001 5:45	-0.83	0.17	0.30	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	0.18	0.30													
5/3/2001 5:46	-0.83	0.18	0.19	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	0.17	0.30													
5/3/2001 5:47	-0.83	0.18	0.30	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	0.17	0.30													
5/3/2001 5:48	-0.83	0.18	0.30	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	0.17	0.30													
5/3/2001 5:49	-0.83	0.11	0.17	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	0.13	0.28													
5/3/2001 5:50	-0.83	0.05	-0.04	CALS	0 CAL SO2	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	0.06	0.06													
5/3/2001 5:51	-0.85	-0.02	-0.21	CALS	0 CAL SO2	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	-0.01	-0.11													
5/3/2001 5:52	-0.85	-0.02	-0.10	CALS	0 CAL SO2	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	-0.01	-0.05													
5/3/2001 5:53	-0.85	-0.02	-0.17	CALS	0 CAL SO2	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	-0.01	-0.07													
5/3/2001 5:54	-0.85	-0.02	-0.10	CALS	0 CAL SO2	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	-0.01	-0.06													
5/3/2001 5:55	-0.85	-0.02	-0.10	CALS	0 CAL SO2	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	-0.01	-0.07													
5/3/2001 5:56	-0.85	-0.02	-0.10	CALS	0 CAL SO2	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.14	-0.01	-0.07													
5/3/2001 5:57	-0.85	-0.03	-0.10	CALS	0 CAL SO2	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.14	-0.02	-0.07													
5/3/2001 5:58	-0.85	-0.02	-0.10	CALS	0 CAL SO2	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.14	-0.01	-0.07													
5/3/2001 5:59	-0.85	0.87	1.18	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.14	0.88	1.29													
5/3/2001 6:00	-0.85	4.35	4.57	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	4.37	4.65													
5/3/2001 6:01	-0.85	5.32	5.45	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.34	5.51													
5/3/2001 6:02	-0.85	5.84	5.63	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.86	5.70													
5/3/2001 6:03	-0.85	5.99	5.69	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.61	5.75													
5/3/2001 6:04	-0.85	5.93	5.75	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.95	5.81													
5/3/2001 6:05	-0.85	5.86	5.78	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.87	5.84													
5/3/2001 6:06	-0.85	5.89	5.81	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.87	5.86													
5/3/2001 6:07	-0.85	5.90	5.82	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.89	5.88													
5/3/2001 6:08	-1.25	5.69	5.86	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.52	5.71	5.95													
5/3/2001 6:09	-1.43	5.88	5.89	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.67	5.89	5.95													
5/3/2001 6:10	-1.16	5.85	5.90	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.36	5.86	5.97													
5/3/2001 6:11	-1.46	5.89	5.94	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.64	5.89	6.01													
5/3/2001 6:12	-2.13	5.73	6.00	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-1.33	5.73	6.06													

TIME	OBSERVED CONCENTRATION PPM			COMMENTS			CALIBRATION CORRECTIONS						CORRECTED PPM VALUES			FLOW MEASURMENTS SCFM						MASS EMISSIONS				EMISSION FACTOR		
							NOX ?		SO2 IN		SO2 OUT																	
	NOX COMP ?	SO2 IN	SO2 OUT	NOX	SO2	RUN NUMBER	0.0	54.3	0.0	0.0	-0.1	0.0	NOX - ?	SO2 IN	SO2 OUT	COLD-1	COLD-2	LAP	FURNACE A	FURNACE C	TOTAL	NOX LB/HR	SO2 IN LB/HR	SO2 OUT LB/HR	AVERAGE SO2 LB/HR	PRODUCTION TONS/HR	NOX LB/TON	SO2 LB/TON
5/3/2001 0:13	-1.80	5.79	5.97	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-1.02	5.72	6.03													
5/3/2001 0:14	-1.83	5.71	5.90	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-1.06	5.73	5.98													
5/3/2001 0:15	-2.48	5.68	5.95	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-1.83	5.67	6.00													
5/3/2001 0:16	-1.43	5.61	5.84	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.67	5.62	5.91													
5/3/2001 0:17	3.32	5.61	5.94	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	3.98	5.63	6.00													
5/3/2001 0:18	-3.35	5.63	5.96	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.30	5.64	6.02													
5/3/2001 0:19	-3.35	5.59	5.96	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.30	5.60	6.03													
5/3/2001 0:20	-3.35	5.61	5.96	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.30	5.62	6.02													
5/3/2001 0:21	-3.35	5.61	5.96	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.30	5.63	6.02													
5/3/2001 0:22	-3.35	5.61	5.99	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.30	5.62	6.05													
5/3/2001 0:23	-3.35	5.61	6.00	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-2.30	5.63	6.07													
5/3/2001 0:24	-2.70	5.61	6.02	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-1.86	5.62	6.08													
5/3/2001 0:25	-0.75	5.59	6.03	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	0.08	5.60	6.08													
5/3/2001 0:26	-0.68	5.57	6.02	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	0.07	5.58	6.08													
5/3/2001 0:27	-0.70	5.59	6.03	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	0.02	5.60	6.08													
5/3/2001 0:28	-0.75	5.60	6.00	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.02	5.61	6.08													
5/3/2001 0:29	-0.78	5.62	6.02	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.05	5.64	6.08													
5/3/2001 0:30	-0.88	5.65	6.00	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.66	6.08													
5/3/2001 0:31	-0.88	5.66	6.06	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.66	6.11													
5/3/2001 0:32	-0.88	5.71	6.10	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.72	6.16													
5/3/2001 0:33	-0.83	5.73	6.03	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.74	6.10													
5/3/2001 0:34	-0.80	5.78	6.06	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.79	6.12													
5/3/2001 0:35	-0.85	5.69	6.08	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.61	6.12													
5/3/2001 0:36	-0.85	5.63	6.06	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.64	6.15													
5/3/2001 0:37	-0.83	5.65	6.02	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.66	6.08													
5/3/2001 0:38	-0.85	5.62	6.06	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.64	6.12													
5/3/2001 0:39	-0.85	5.64	6.02	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.66	6.08													
5/3/2001 0:40	-0.85	5.60	5.99	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.62	6.05													
5/3/2001 0:41	-0.85	5.60	5.92	CALS	cal 5.94	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.62	5.98													
5/3/2001 0:42	-0.85	5.55	5.89	CALS	cal 5.94	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.56	5.93													
5/3/2001 0:43	-0.85	5.52	5.88	CALS	cal 5.94	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.54	5.93													
5/3/2001 0:44	-0.85	5.52	5.92	CALS	cal 5.94	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.14	5.53	5.89													
5/3/2001 0:45	-0.88	5.56	5.90	CALS	cal 5.94	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.14	5.57	6.03													
5/3/2001 0:46	-0.85	8.10	8.36	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	8.20	8.46													
5/3/2001 0:47	-0.85	11.84	11.97	CALS	cal 12.07	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	11.96	12.09													
5/3/2001 0:48	-0.85	12.42	12.54	CALS	cal 12.07	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	12.44	12.56													
5/3/2001 0:49	-0.85	12.61	12.66	CALS	cal 12.07	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.13	12.65	12.68													
5/3/2001 0:50	-0.85	12.69	12.75	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	12.82	12.75													
5/3/2001 0:51	-0.85	12.82	12.77	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	12.84	12.79													
5/3/2001 0:52	-0.85	12.65	12.73	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	12.65	12.75													
5/3/2001 0:53	-0.85	12.64	12.71	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	12.66	12.73													
5/3/2001 0:54	-0.85	12.66	12.77	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	12.67	12.79													
5/3/2001 0:55	-0.86	12.66	12.82	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.13	12.78	12.84													
5/3/2001 0:56	-0.86	12.66	12.77	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.13	12.79	12.79													
5/3/2001 0:57	-0.85	12.64	12.80	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	12.66	12.82													
5/3/2001 0:58	-0.85	12.66	12.84	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	12.70	12.86													
5/3/2001 0:59	-0.86	11.30	11.76	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	12.01	11.78													
5/3/2001 7:00	-0.80	4.21	4.13	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	4.23	4.20													
5/3/2001 7:01	-0.85	0.02	1.39	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	0.05	1.37													
5/3/2001 7:02	-0.85	0.28	0.59	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	0.29	0.69													
5/3/2001 7:03	-0.86	0.13	0.38	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	0.14	0.43													
5/3/2001 7:04	-0.86	0.09	0.22	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	0.10	0.32													
5/3/2001 7:05	-0.85	0.07	0.13	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.13	0.08	0.25													
5/3/2001 7:06	-0.85	0.03	0.07	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	0.04	0.17													
5/3/2001 7:07	-0.86	0.00	0.04	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.14	0.01	0.14													
5/3/2001 7:08	-0.85	0.01	0.00	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	0.02	0.10													
5/3/2001 7:09	-0.86	0.02	0.00	CALS	cal zero	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	0.03	0.10													
5/3/2001 7:10	-0.86	-0.02	-0.04	CALS	cal zero	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.14	-0.01	0.06													
5/3/2001 7:11	-0.85	-0.05	-0.09	CALS	cal zero	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	-0.05	0.03													
5/3/2001 7:12	-0.86	-0.05	-0.09	CALS	cal zero	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.14	-0.03	0.01													
5/3/2001 7:13	-0.86	2.26	2.21	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.14	2.28	2.32													
5/3/2001 7:14	-0.86	5.05	5.00	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.14	5.09	5.14													
5/3/2001 7:15	-0.86	5.65	5.65	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.14	5.71	5.79													
5/3/2001 7:16	-0.85	5.79	5.88	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.84	5.81													
5/3/2001 7:17	-0.85	5.83	5.72	CALS	CALS	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.88	5.86													
5/3/2001 7:18	-0.85	5.86	5.75	CALS	cal 5.94	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.92	5.90													
5/3/2001 7:19	-0.85	5.85	5.76	CALS	cal 5.94	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.91	5.91													
5/3/2001 7:20	-0.86	5.87	5.78	CALS	cal 5.94	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.93	5.93													
5/3/2001 7:21	-0.85	5.91	5.78	CALS	cal 5.94	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.97	5.93													
5/3/2001 7:22	-0.86	5.80	5.84	CALS	cal 5.94	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	6.00	5.99													
5/3/2001 7:23	-1.38	5.80	5.85	CALS	cal 5.94	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.62	5.86	6.00													
5/3/2001 7:24	-0.85	5.84	5.85	CALS	cal 5.94	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	6.00	6.00													
5/3/2001 7:25	-0.83	5.87	5.86	CALS	cal 5.94	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.09	6.03	6.00													
5/3/2001 7:26	-0.85	5.87	5.90	CALS	cal 5.94	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	6.04	6.05													
5/3/2001 7:27	-0.85	5.89	5.86	CALS	cal 5.94	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.99	6.01													
5/3/2001 7:28	-0.85	5.94	5.91	CALS	cal 5.94	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	6.00	6.06													
5/3/2001 7:29	-0.85	5.91	5.83	CALS	cal 5.94	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.97	6.09													
5/3/2001 7:30	-0.86	5.90	5.86	CALS	cal 5.94	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.14	5.97	6.04													
5/3/2001 7:31	-0.85	5.93	5.91	CALS	cal 5.94	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	5.98	6.07													
5/3/2001 7:32	-0.85	5.95	5.96	CALS	cal 5.94	WAIT	-0.7	56.1	0.0	0.0	-0.1	0.0	-0.12	6.02	6.01													

TIME	OBSERVED CONCENTRATION PPM			COMMENTS			CALIBRATION CORRECTIONS						CORRECTED PPM VALUES			FLOW MEASURMENTS SCFM						MASS EMISSIONS				EMISSION FACTOR		
							NOX ?		SO2 IN		SO2 OUT																	
	NOX COMP ?	SO2 IN	SO2 OUT	NOX	SO2	RUN NUMBER	0.0	54.3	0.0	0.0	-0.1	0.0	NOX - ?	SO2 IN	SO2 OUT	COLD-1	COLD-2	LAB	FURNACE A	FURNACE C	TOTAL	NOX LB/HR	SO2 IN LB/HR	SO2 OUT LB/HR	AVERAGE SO2 LB/HR	PRODUCTION TONS/HR	NOX LB/TON	SO2 LB/TON
5/3/2001 7:33	-0.93	5.86	5.86	CALB	cal 5.94	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.19	6.03	6.04													
5/3/2001 7:34	-2.00	5.92	5.99	CALB	cal 5.94	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-1.21	5.99	6.05													
5/3/2001 7:35	-2.35	5.88	5.89	CALB	cal 5.94	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-1.56	5.95	6.00													
5/3/2001 7:36	-1.95	5.92	5.98	CALB	cal 5.94	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-1.16	5.98	6.02													
5/3/2001 7:37	-2.53	5.88	5.93	CALB	cal 5.94	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-1.71	6.02	6.08													
5/3/2001 7:38	-1.30	5.94	5.98	CALB	cal 5.94	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.74	6.00	6.04													
5/3/2001 7:39	-1.39	5.91	5.96	CALB	cal 5.94	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.82	5.97	6.03													
5/3/2001 7:40	-1.39	5.89	5.99	CALB	cal 5.94	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.81	5.95	6.00													
5/3/2001 7:41	1.87	2.98	3.06	CALB	CALB	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	2.46	3.00	3.16													
5/3/2001 7:42	-0.85	0.79	0.97	CALB	CALB	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.13	0.89	1.07													
5/3/2001 7:43	-0.78	0.83	0.41	CALB	CALB	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.05	0.35	0.50													
5/3/2001 7:44	-0.78	0.10	0.21	CALB	CALB	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.06	0.07	0.20													
5/3/2001 7:45	-0.83	0.05	0.10	CALB	CALB	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.13	0.02	0.10													
5/3/2001 7:46	-0.85	0.02	0.08	CALB	CALB	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.13	0.00	0.17													
5/3/2001 7:47	-0.83	0.79	1.57	CALB	CALB	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.06	0.79	1.66													
5/3/2001 7:48	-0.88	1.47	2.64	CALB	CALB	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.12	1.47	2.76													
5/3/2001 7:49	-0.83	2.16	2.73	CALB	CALB	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.13	2.19	2.85													
5/3/2001 7:50	-0.88	3.00	3.28	CALB	CALB	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.13	3.04	3.39													
5/3/2001 7:51	-0.88	3.54	3.74	CALB	CALB	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.13	3.57	3.87													
5/3/2001 7:52	-0.88	2.91	2.79	CALB	CALB	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.13	2.96	2.92													
5/3/2001 7:53	-0.85	0.91	1.48	CALB	CALB	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.12	0.93	1.60													
5/3/2001 7:54	-0.85	2.80	2.32	CALB	CALB	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.13	2.87	2.44													
5/3/2001 7:55	-0.88	3.73	3.47	CALB	CALB	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.14	3.78	3.58													
5/3/2001 7:56	-0.85	2.80	3.57	CALB	CALB	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.12	2.95	3.70													
5/3/2001 7:57	-0.83	2.83	3.16	CALB	CALB	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.08	2.84	3.28													
5/3/2001 7:58	-0.88	2.25	2.66	CALB	CALB	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.14	2.30	2.80													
5/3/2001 7:59	-1.15	2.14	1.22	CALB	CALB	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.40	2.14	1.32													
5/3/2001 8:00	-1.85	2.58	1.06	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-1.17	2.36	1.18													
5/3/2001 8:01	1.54	3.42	2.39	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	2.17	3.45	2.51													
5/3/2001 8:02	-0.83	4.06	4.01	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.08	4.09	4.14													
5/3/2001 8:03	-0.75	5.53	5.75	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.02	5.50	5.90													
5/3/2001 8:04	-0.93	7.20	7.06	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.09	7.46	8.02													
5/3/2001 8:05	-0.93	7.04	6.47	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.09	7.03	6.68													
5/3/2001 8:06	-0.86	7.00	7.00	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.12	7.14	8.17													
5/3/2001 8:07	-0.86	6.15	7.39	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.12	6.22	7.48													
5/3/2001 8:08	-0.86	4.98	6.23	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.12	5.00	6.36													
5/3/2001 8:09	-0.88	4.01	5.01	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.12	4.05	5.16													
5/3/2001 8:10	-0.88	3.42	4.40	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.12	3.85	4.94													
5/3/2001 8:11	-0.68	3.47	4.29	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	0.02	3.49	4.33													
5/3/2001 8:12	3.27	3.54	4.16	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	3.61	3.57	4.22													
5/3/2001 8:13	-0.79	3.83	4.46	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	0.02	3.87	4.62													
5/3/2001 8:14	-0.88	4.29	4.86	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.12	4.34	5.06													
5/3/2001 8:15	-2.10	4.35	5.30	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-1.31	4.40	5.45													
5/3/2001 8:16	-3.35	3.79	5.23	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-2.50	3.73	5.40													
5/3/2001 8:17	-1.33	3.76	5.04	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.57	3.81	5.18													
5/3/2001 8:18	-1.08	3.60	4.67	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.33	3.63	4.81													
5/3/2001 8:19	-1.08	3.36	4.30	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.33	3.41	4.44													
5/3/2001 8:20	-1.08	3.39	4.29	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.33	3.62	4.43													
5/3/2001 8:21	-1.06	3.43	4.34	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.30	3.46	4.46													
5/3/2001 8:22	-1.10	2.27	3.61	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.36	2.30	3.74													
5/3/2001 8:23	-1.10	1.75	3.05	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	-0.36	1.79	3.18													
5/3/2001 8:24	0.66	2.12	2.74	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	0.60	2.12	2.86													
5/3/2001 8:25	89.49	2.43	2.77	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	89.65	2.44	2.88													
5/3/2001 8:26	86.89	2.60	3.00	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	85.29	2.62	3.12													
5/3/2001 8:27	91.34	2.66	3.27	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	87.72	2.67	3.40													
5/3/2001 8:28	92.32	2.25	3.18	83.3 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	89.74	2.28	3.22													
5/3/2001 8:29	92.57	2.13	1.39	83.3 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	89.99	2.15	1.48													
5/3/2001 8:30	92.47	2.61	1.30	83.3 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	89.89	2.62	1.31													
5/3/2001 8:31	92.68	2.34	1.87	83.3 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	90.03	2.35	1.99													
5/3/2001 8:32	92.02	3.40	2.47	83.3 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	89.83	3.42	2.58													
5/3/2001 8:33	92.54	3.72	3.35	83.3 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	89.95	3.75	3.48													
5/3/2001 8:34	92.32	4.30	4.11	83.3 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	89.53	4.34	4.24													
5/3/2001 8:35	92.54	5.91	3.47	83.3 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	89.95	5.97	3.65													
5/3/2001 8:36	92.34	6.55	1.53	83.3 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	89.95	6.62	1.64													
5/3/2001 8:37	92.82	6.97	3.69	83.3 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	90.43	7.05	3.81													
5/3/2001 8:38	92.37	6.47	4.86	83.3 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	89.98	6.54	5.11													
5/3/2001 8:39	85.46	5.86	5.00	CALB	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	82.10	5.13	5.15													
5/3/2001 8:40	86.99	4.80	5.44	84.2 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	84.61	4.84	5.38													
5/3/2001 8:41	86.65	4.86	5.34	84.2 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	84.77	4.91	5.48													
5/3/2001 8:42	86.79	3.96	4.38	84.2 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	84.82	3.91	4.36													
5/3/2001 8:43	86.87	3.84	3.71	84.2 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	84.79	3.28	3.63													
5/3/2001 8:44	86.68	3.79	4.11	84.2 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	84.77	3.73	4.24													
5/3/2001 8:45	86.76	4.85	4.08	84.2 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	84.86	4.12	4.22													
5/3/2001 8:46	86.80	4.97	4.80	84.2 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	84.81	5.03	5.07													
5/3/2001 8:47	86.87	6.02	6.47	84.2 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	84.08	6.10	6.63													
5/3/2001 8:48	86.68	5.87	6.75	84.2 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	84.15	5.94	6.92													
5/3/2001 8:49	86.12	4.68	5.83	84.2 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	84.22	4.73	5.99													
5/3/2001 8:50	86.15	4.13	4.89	84.2 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	84.24	4.17	5.14													
5/3/2001 8:51	86.17	4.08	4.77	84.2 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	84.27	4.12	4.91													
5/3/2001 8:52	86.17	4.02	4.66	84.2 CAL	BO2 entire 7, 10	WAIT	-0.7	54.1	0.0	0.0	-0.1	0.0	84.27	4.06	5.00													

TIME	OBSERVED CONCENTRATION PPM			COMMENTS			CALIBRATION CORRECTIONS						CORRECTED PPM VALUES			FLOW MEASURMENTS SCFM						MASS EMISSIONS				EMISSION FACTOR		
							NOX 7		SO2 IN		SO2 OUT																	
	NOX COMP 7	SO2 IN	SO2 OUT	NOX	SO2	RUN NUMBER	0.0	54.3	0.0	5.9	-0.1	5.8	NOX - 7	SO2 IN	SO2 OUT	COLD 1	COLD 2	LIME	FURNACE A	FURNACE C	TOTAL	NOX LB/HR	SO2 IN LB/HR	SO2 OUT LB/HR	AVERAGE SO2 LB/HR	PRODUCTION TONS/HR	NOX LB/TON	SO2 LB/TON
5/3/2001 0:33	36.20	3.98	4.06	54.3 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	54.89	4.01	3.99													
5/3/2001 0:34	36.25	4.04	4.03	54.3 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	54.94	4.09	3.97													
5/3/2001 0:35	36.22	4.41	5.27	54.3 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	54.92	4.48	5.42													
5/3/2001 0:36	36.25	4.52	5.36	54.3 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	54.94	4.58	5.41													
5/3/2001 0:37	36.20	5.14	5.76	54.3 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	54.89	5.19	5.82													
5/3/2001 0:38	36.17	5.69	6.86	54.3 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	54.87	5.86	6.74													
5/3/2001 0:39	36.17	4.06	6.77	54.3 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	54.87	4.09	6.83													
5/3/2001 0:40	36.17	4.43	5.83	54.3 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	54.87	4.47	5.81													
5/3/2001 0:41	36.15	5.34	2.51	54.3 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	54.84	5.30	2.83													
5/3/2001 0:42	36.15	2.02	2.05	54.3 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	54.84	5.39	2.17													
5/3/2001 0:43	36.12	5.18	2.08	54.3 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	54.82	5.23	2.20													
5/3/2001 0:44	36.05	4.75	2.07	54.3 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	54.16	4.79	2.19													
5/3/2001 0:45	32.26	4.39	1.56	CALS	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	30.66	4.40	1.68													
5/3/2001 0:46	-0.23	4.25	0.63	CALS	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	0.43	4.27	0.65													
5/3/2001 0:47	29.26	4.46	1.26	CALS	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	28.04	4.50	1.37													
5/3/2001 0:48	25.42	4.71	3.04	CALS	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	24.84	4.76	3.16													
5/3/2001 0:49	25.37	5.12	4.62	CALS	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	24.80	5.17	4.77													
5/3/2001 0:50	25.37	4.86	5.13	54.3 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	24.80	4.94	5.29													
5/3/2001 0:51	25.37	4.30	4.70	54.3 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	24.80	4.34	4.84													
5/3/2001 0:52	25.36	3.89	2.18	54.3 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	24.87	3.93	2.22													
5/3/2001 0:53	25.37	3.99	1.09	54.3 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	24.80	3.63	1.18													
5/3/2001 0:54	25.48	3.57	2.08	54.3 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	24.82	3.60	2.18													
5/3/2001 0:55	12.26	3.99	2.08	CALS	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	12.28	3.63	3.01													
5/3/2001 0:56	9.91	3.42	3.26	10.0 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	10.05	3.46	3.49													
5/3/2001 0:57	9.91	3.27	2.54	10.0 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	10.05	3.29	3.07													
5/3/2001 0:58	7.91	3.25	3.41	CALS	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	8.24	3.27	3.53													
5/3/2001 0:59	-0.38	3.25	2.18	CALS	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	0.17	3.27	2.29													
5/3/2001 1:00	-0.58	3.27	2.20	CALS	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	0.08	3.30	2.31													
5/3/2001 1:01	-0.79	3.11	2.07	0.0 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	0.02	3.13	2.19													
5/3/2001 1:02	-0.78	2.50	1.88	0.0 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	0.02	2.51	1.80													
5/3/2001 1:03	-0.76	2.42	1.36	0.0 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	0.02	2.44	1.47													
5/3/2001 1:04	-0.73	2.21	1.01	0.0 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	0.05	2.22	1.11													
5/3/2001 1:05	-0.73	2.21	0.93	0.0 CAL	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	0.05	2.22	1.03													
5/3/2001 1:06	0.19	2.42	0.84	NOX ONLINE 7	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	0.73	2.43	1.04													
5/3/2001 1:07	0.72	2.43	1.08	NOX ONLINE 7	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	1.26	2.43	1.18													
5/3/2001 1:08	0.72	2.26	0.95	NOX ONLINE 7	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	1.26	2.27	1.05													
5/3/2001 1:09	0.42	1.89	1.24	NOX ONLINE 7	SO2 entire 7, 19	WAIT	-0.7	56.1	0.0	5.9	-0.1	5.8	1.16	1.89	1.34													
5/3/2001 9:30	0.82	1.61	1.36	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.00	1.61	1.47	881408	83063	19481	132503	86408	1213875	0.7	19.9	16.2	19.0	184.8	0.00	0.10
5/3/2001 9:31	0.64	1.66	1.27	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.27	1.66	1.38	881408	83063	19481	132503	86408	1213875	11.4	20.5	17.0	18.8	184.8	0.06	0.10
5/3/2001 9:32	1.07	1.69	1.40	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.73	1.69	1.51	881408	83063	19481	132503	86408	1213875	14.8	21.0	18.7	18.8	184.8	0.08	0.11
5/3/2001 9:33	2.47	2.29	1.51	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	3.24	2.30	1.62	881408	83063	19481	132503	86408	1213875	28.2	29.5	20.0	24.5	184.8	0.15	0.13
5/3/2001 9:34	1.84	2.69	2.13	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	2.43	2.70	2.24	881408	83063	19481	132503	86408	1213875	21.3	33.5	27.8	30.6	184.8	0.12	0.17
5/3/2001 9:35	0.30	3.21	2.28	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.25	3.22	2.39	881408	83063	19481	132503	86408	1213875	11.0	27.5	29.7	28.6	184.8	0.06	0.15
5/3/2001 9:36	0.60	1.66	2.54	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	0.89	1.69	2.66	881408	83063	19481	132503	86408	1213875	8.0	20.9	32.9	26.9	184.8	0.05	0.15
5/3/2001 9:37	1.57	2.79	2.59	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	2.18	2.79	2.71	881408	83063	19481	132503	86408	1213875	19.1	34.4	36.5	34.5	184.8	0.10	0.20
5/3/2001 9:38	2.29	2.87	3.48	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	2.70	2.89	3.62	881408	83063	19481	132503	86408	1213875	26.2	33.2	44.9	39.0	184.8	0.31	0.21
5/3/2001 9:39	4.57	2.42	5.23	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	5.05	2.44	5.38	881408	83063	19481	132503	86408	1213875	43.8	30.2	41.4	35.8	184.8	0.24	0.19
5/3/2001 9:40	4.49	2.04	2.97	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	4.98	2.04	2.99	881408	83063	19481	132503	86408	1213875	43.3	25.3	37.0	31.2	184.8	0.23	0.17
5/3/2001 9:41	3.52	1.70	2.46	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	4.08	1.70	2.56	881408	83063	19481	132503	86408	1213875	35.2	21.0	32.0	26.5	184.8	0.19	0.14
5/3/2001 9:42	3.32	1.63	1.23	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	3.86	1.63	1.34	881408	83063	19481	132503	86408	1213875	33.6	20.1	16.5	18.3	184.8	0.18	0.10
5/3/2001 9:43	2.67	1.61	0.76	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	2.43	1.61	0.88	881408	83063	19481	132503	86408	1213875	29.8	19.9	10.9	15.3	184.8	0.16	0.08
5/3/2001 9:44	2.09	1.62	1.18	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	2.89	1.62	1.29	881408	83063	19481	132503	86408	1213875	23.4	20.0	15.8	17.8	184.8	0.13	0.10
5/3/2001 9:45	0.98	1.69	1.61	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.84	1.69	1.72	881408	83063	19481	132503	86408	1213875	14.3	21.0	21.3	21.1	184.8	0.06	0.11
5/3/2001 9:46	0.43	1.79	1.88	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.12	1.79	1.97	881408	83063	19481	132503	86408	1213875	8.7	21.0	24.4	22.7	184.8	0.05	0.12
5/3/2001 9:47	0.25	1.73	1.97	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	0.93	1.73	2.06	881408	83063	19481	132503	86408	1213875	8.1	21.4	25.8	23.6	184.8	0.04	0.13
5/3/2001 9:48	0.48	1.67	1.67	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.17	1.67	1.76	881408	83063	19481	132503	86408	1213875	10.2	20.6	22.0	21.3	184.8	0.05	0.12
5/3/2001 9:49	0.39	1.60	0.87	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.26	1.60	0.77	881408	83063	19481	132503	86408	1213875	11.0	19.7	9.5	14.6	184.8	0.06	0.08
5/3/2001 9:50	0.42	1.63	0.89	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.10	1.63	0.79	881408	83063	19481	132503	86408	1213875	9.5	19.8	9.6	14.8	184.8	0.05	0.08
5/3/2001 9:51	0.35	1.46	1.05	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.03	1.44	1.15	881408	83063	19481	132503	86408	1213875	8.8	17.8	14.3	16.1	184.8	0.05	0.09
5/3/2001 9:52	0.39	1.61	1.48	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	0.98	1.61	1.60	881408	83063	19481	132503	86408	1213875	8.3	20.0	19.8	19.9	184.8	0.05	0.11
5/3/2001 9:53	0.20	1.76	1.77	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	0.88	1.77	1.88	881408	83063	19481	132503	86408	1213875	7.7	21.8	23.3	22.6	184.8	0.04	0.12
5/3/2001 9:54	0.32	1.80	1.44	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.00	1.80	1.54	881408	83063	19481	132503	86408	1213875	8.7	22.3	19.1	20.7	184.8	0.05	0.11
5/3/2001 9:55	0.45	1.86	0.98	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.12	1.82	1.04	881408	83063	19481	132503	86408	1213875	9.7	22.5	12.8	17.7	184.8	0.05	0.10
5/3/2001 9:56	0.32	1.90	0.79	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.00	1.90	0.80	881408	83063	19481	132503	86408	1213875	8.7	23.0	9.9	16.7	184.8	0.05	0.09
5/3/2001 9:57	0.30	1.88	0.86	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	0.96	1.88	0.96	881408	83063	19481	132503	86408	1213875	8.5	23.4	12.2	17.8	184.8	0.05	0.10
5/3/2001 9:58	0.42	2.13	1.84	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.10	2.13	1.94	881408	83063	19481	132503	86408	1213875	9.5	28.4	20.4	23.4	184.8	0.05	0.13
5/3/2001 9:59	0.32	2.41	1.17	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.00	2.43	1.27	881408	83063	19481	132503	86408	1213875	8.7	30.0	15.7	22.9	184.8	0.05	0.12
5/3/2001 10:00	0.69	2.79	1.61	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.36	2.79	1.72	881408	83063	19481	132503	86408	1213875	11.8	34.4	21.3	27.8	184.8	0.06	0.15
5/3/2001 10:01	0.82	2.91	1.79	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.46	2.92	1.81	881408	83063	19481	132503	86408	1213875	12.8	32.3	22.4	27.4	184.8	0.07	0.15
5/3/2001 10:02	0.54	2.44	1.27	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.22	2.45	1.36	881408	83063	19481	132503	86408	1213875	10.6	30.2	17.0	23.7	184.8	0.06	0.12
5/3/2001 10:03	0.48	2.46	1.71	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.17	2.47	1.82	881408	83063	19481	132503	86408	1213875	10.2	30.6	22.8	26.8	184.8	0.06	0.14
5/3/2001 10:04	0.32	2.35	2.21	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.00	2.36	2.33	881408	83063	19481	132503	86408	1213875	8.7	31.7	29.9	30.3	184.8	0.05	0.16
5/3/2001 10:05	0.13	2.49	2.16	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	0.83	2.50	2.29	881408	83063	19481	132503	86408	1213875	7.3	31.0	28.4	29.7	184.8	0.04	0.16
5/3/2001 10:06	-0.05	2.68	1.72	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	0.64	2.69	1.83	881408	83063	19481	132503	86408	1213875	5.6	25.8	22.7	24.3	184.8	0.03	0.13
5/3/2001 10:07	0.02	2.44	2.05	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	0.72	2.45	2.15	881408	83063	19481	132503	86408	1213875	6.2	30.3	26.6	28.5	184.8	0.03	0.15
5/3/2001 10:08	0.22	2.68	2.64	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	0.91	2.69	2.79	881408	83063	19481	132503	86408	1213875	7.9	36.8	34.2	35.5	184.8	0.04	0.19
5/3/2001 10:09	0.32	3.24	2.93	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.00	3.27	3.04	881408	83063	19481	132503	86408	1213875	8.7	40.4	37.9	39.0	184.8	0.05	0.21
5/3/2001 10:10	0.20	3.30	3.02	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	0.88	3.32	3.13	881408	83063	19481	132503	86408	1213875	8.5	41.1	38.0	40.1	184.8	0.05	0.22
5/3/2001 10:11	0.26	3.08	3.11	NOX ONLINE 7	SO2 entire 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.03	3.10	3.23	881408	83063	19481	132503	86408	1213875	8.9	38.4	40.0	39.2	184.8	0.05	0.21

TIME	OBSERVED CONCENTRATION PPM			COMMENTS			CALIBRATION CORRECTIONS						CORRECTED PPM VALUES			FLOW MEASURMENTS SCFM						MASS EMISSIONS				EMISSION FACTOR		
							NOX 7		SO2 IN		SO2 OUT																	
	NOX COMP 7	SO2 IN	SO2 OUT	NOX	SO2	RUN NUMBER	0.0	24.3	0.0	3.0	0.0	3.0	NOX - 7	SO2 IN	SO2 OUT	COLD-1	COLD-2	LMF	FURNACE A	FURNACE C	TOTAL	NOX LBS/HR	SO2 IN LBS/HR	SO2 OUT LBS/HR	AVERAGE SO2 LBS/HR	PRODUCTION TONS/HR	NOX LBS/TON	SO2 LBS/TON
5/3/2001 10:12	0.70	2.16	3.12	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	0.66	2.17	3.23	861408	83063	19481	132503	86409	1212875	7.7	28.9	40.2	33.6	184.8	0.04	0.18
5/3/2001 10:13	-0.05	2.12	3.29	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	0.64	2.13	3.42	861408	83063	19481	132503	86409	1212875	5.6	28.4	42.4	34.4	184.8	0.03	0.19
5/3/2001 10:14	0.13	2.38	3.75	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	0.83	2.38	3.91	861408	83063	19481	132503	86409	1212875	7.3	42.0	48.4	45.2	184.8	0.04	0.24
5/3/2001 10:15	1.08	4.26	4.46	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	1.74	4.40	4.60	861408	83063	19481	132503	86409	1212875	15.1	54.6	56.9	55.7	184.8	0.08	0.30
5/3/2001 10:16	2.39	4.46	4.15	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	2.56	4.61	4.29	861408	83063	19481	132503	86409	1212875	25.1	55.6	53.1	54.5	184.8	0.14	0.29
5/3/2001 10:17	1.52	4.39	3.30	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	2.53	4.54	3.42	861408	83063	19481	132503	86409	1212875	22.0	53.8	42.4	48.1	184.8	0.12	0.26
5/3/2001 10:18	1.02	4.28	3.89	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	1.67	4.32	3.12	861408	83063	19481	132503	86409	1212875	14.5	53.8	38.7	46.1	184.8	0.08	0.25
5/3/2001 10:19	0.74	4.05	1.57	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	1.41	4.01	1.88	861408	83063	19481	132503	86409	1212875	12.2	50.8	20.8	40.8	184.8	0.07	0.22
5/3/2001 10:20	0.97	3.99	2.44	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	1.62	5.05	2.56	861408	83063	19481	132503	86409	1212875	14.1	73.7	31.7	52.7	184.8	0.09	0.29
5/3/2001 10:21	1.24	5.98	3.09	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	1.88	5.92	3.23	861408	83063	19481	132503	86409	1212875	16.4	89.8	84.8	87.2	184.8	0.09	0.36
5/3/2001 10:22	0.74	4.48	2.39	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	1.41	4.52	2.74	861408	83063	19481	132503	86409	1212875	12.2	56.0	71.1	63.6	184.8	0.07	0.34
5/3/2001 10:23	0.56	3.70	4.74	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.29	3.73	4.86	861408	83063	19481	132503	86409	1212875	11.0	46.1	60.4	53.3	184.8	0.06	0.29
5/3/2001 10:24	0.56	3.39	4.32	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.29	3.33	4.46	861408	83063	19481	132503	86409	1212875	11.0	41.2	55.2	48.2	184.8	0.06	0.26
5/3/2001 10:25	0.62	3.23	2.51	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.39	3.25	2.63	861408	83063	19481	132503	86409	1212875	11.2	40.2	32.5	36.4	184.8	0.06	0.20
5/3/2001 10:26	0.89	3.38	1.17	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.39	3.41	1.27	861408	83063	19481	132503	86409	1212875	11.8	42.2	15.8	29.0	184.8	0.06	0.16
5/3/2001 10:27	0.62	3.38	1.67	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.39	3.41	1.88	861408	83063	19481	132503	86409	1212875	11.2	42.2	24.0	33.1	184.8	0.06	0.18
5/3/2001 10:28	0.59	3.15	2.22	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.29	3.17	2.34	861408	83063	19481	132503	86409	1212875	11.0	39.3	28.9	34.1	184.8	0.06	0.18
5/3/2001 10:29	0.42	3.34	3.31	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.16	3.37	3.44	861408	83063	19481	132503	86409	1212875	9.5	41.7	42.6	42.2	184.8	0.05	0.23
5/3/2001 10:30	0.32	3.85	4.32	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.02	3.88	4.46	861408	83063	19481	132503	86409	1212875	8.7	44.3	55.3	49.8	184.8	0.05	0.27
5/3/2001 10:31	1.02	3.84	2.48	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	2.24	3.87	2.04	861408	83063	19481	132503	86409	1212875	19.3	25.3	44.3	34.8	184.8	0.11	0.19
5/3/2001 10:32	3.62	1.14	2.07	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	4.15	1.13	2.16	861408	83063	19481	132503	86409	1212875	36.8	14.8	27.0	20.9	184.8	0.20	0.11
5/3/2001 10:33	1.87	1.38	1.56	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	2.46	1.18	1.67	861408	83063	19481	132503	86409	1212875	21.5	14.8	20.7	17.7	184.8	0.12	0.10
5/3/2001 10:34	1.42	2.14	1.83	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	2.05	2.14	1.96	861408	83063	19481	132503	86409	1212875	17.8	26.5	24.3	25.4	184.8	0.10	0.14
5/3/2001 10:35	1.39	2.69	2.49	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	2.03	2.68	2.61	861408	83063	19481	132503	86409	1212875	17.8	33.2	32.3	32.7	184.8	0.10	0.18
5/3/2001 10:36	1.52	2.74	2.87	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	2.15	2.73	3.00	861408	83063	19481	132503	86409	1212875	18.8	34.1	38.3	36.2	184.8	0.10	0.20
5/3/2001 10:37	1.54	2.73	3.39	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	2.17	2.78	3.32	861408	83063	19481	132503	86409	1212875	18.8	34.8	41.5	37.7	184.8	0.10	0.20
5/3/2001 10:38	1.47	2.91	3.41	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	2.10	2.93	3.54	861408	83063	19481	132503	86409	1212875	18.2	36.3	43.8	40.0	184.8	0.10	0.22
5/3/2001 10:39	1.27	3.10	2.95	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.91	3.21	3.11	861408	83063	19481	132503	86409	1212875	16.9	39.7	38.5	39.1	184.8	0.09	0.21
5/3/2001 10:40	1.19	3.25	2.21	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.84	3.27	2.32	861408	83063	19481	132503	86409	1212875	16.0	40.5	29.7	34.8	184.8	0.09	0.19
5/3/2001 10:41	1.72	3.34	2.69	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	2.34	3.37	2.74	861408	83063	19481	132503	86409	1212875	20.3	41.7	29.5	34.1	184.8	0.11	0.19
5/3/2001 10:42	1.47	3.68	3.02	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	2.16	3.71	3.15	861408	83063	19481	132503	86409	1212875	18.2	46.0	38.0	42.5	184.8	0.10	0.23
5/3/2001 10:43	1.14	3.63	2.84	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.79	3.68	2.98	861408	83063	19481	132503	86409	1212875	15.8	47.8	36.7	42.2	184.8	0.09	0.23
5/3/2001 10:44	1.62	3.48	2.69	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	2.24	3.48	2.71	861408	83063	19481	132503	86409	1212875	19.5	43.2	33.8	38.4	184.8	0.11	0.21
5/3/2001 10:45	2.12	2.75	2.48	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	2.72	2.77	2.58	861408	83063	19481	132503	86409	1212875	23.6	34.3	32.1	33.2	184.8	0.13	0.18
5/3/2001 10:46	1.39	2.39	1.69	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	2.09	2.39	1.71	861408	83063	19481	132503	86409	1212875	17.6	29.4	21.2	24.8	184.8	0.10	0.13
5/3/2001 10:47	0.97	1.97	1.49	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.53	1.97	1.90	861408	83063	19481	132503	86409	1212875	13.3	24.5	19.8	22.1	184.8	0.07	0.12
5/3/2001 10:48	0.97	1.72	1.52	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.34	1.72	1.63	861408	83063	19481	132503	86409	1212875	10.8	21.3	20.2	20.7	184.8	0.06	0.11
5/3/2001 10:49	0.72	1.34	1.49	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	0.81	1.33	1.51	861408	83063	19481	132503	86409	1212875	7.0	16.5	18.7	17.6	184.8	0.04	0.10
5/3/2001 10:50	0.62	1.82	1.69	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	0.72	1.82	1.71	861408	83063	19481	132503	86409	1212875	6.2	22.6	21.2	21.9	184.8	0.03	0.12
5/3/2001 10:51	0.72	2.17	1.65	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	0.81	2.18	1.86	861408	83063	19481	132503	86409	1212875	7.0	27.0	24.3	25.6	184.8	0.04	0.14
5/3/2001 10:52	0.65	2.33	1.65	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	0.74	2.34	1.79	861408	83063	19481	132503	86409	1212875	6.4	29.0	22.2	25.6	184.8	0.03	0.14
5/3/2001 10:53	0.65	2.39	1.24	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	0.74	2.40	1.34	861408	83063	19481	132503	86409	1212875	6.4	29.7	16.6	23.2	184.8	0.03	0.13
5/3/2001 10:54	0.17	2.44	0.69	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	0.06	2.46	1.04	861408	83063	19481	132503	86409	1212875	1.5	30.4	12.5	21.5	184.8	0.01	0.12
5/3/2001 10:55	0.27	2.67	0.63	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	0.05	2.68	0.73	861408	83063	19481	132503	86409	1212875	0.3	33.2	9.0	21.1	184.8	0.01	0.11
5/3/2001 10:56	0.40	2.41	0.52	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	1.07	2.44	0.61	861408	83063	19481	132503	86409	1212875	0.3	42.0	7.6	25.1	184.8	0.00	0.14
5/3/2001 10:57	1.12	4.08	0.54	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.78	4.12	0.64	861408	83063	19481	132503	86409	1212875	15.3	51.0	7.9	29.5	184.8	0.08	0.16
5/3/2001 10:58	1.52	3.88	0.77	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	2.15	3.92	0.87	861408	83063	19481	132503	86409	1212875	19.6	48.3	10.8	30.1	184.8	0.10	0.16
5/3/2001 10:59	1.34	3.30	0.61	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.88	3.32	0.71	861408	83063	19481	132503	86409	1212875	17.2	41.1	9.5	24.9	184.8	0.09	0.14
5/3/2001 11:00	1.39	2.43	0.83	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	2.03	2.44	1.04	861408	83063	19481	132503	86409	1212875	17.8	30.2	12.5	21.5	184.8	0.10	0.12
5/3/2001 11:01	1.64	2.32	1.30	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	2.45	2.33	1.40	861408	83063	19481	132503	86409	1212875	21.3	28.6	17.4	23.1	184.8	0.12	0.13
5/3/2001 11:02	1.10	3.65	0.65	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.84	3.63	0.74	861408	83063	19481	132503	86409	1212875	16.8	45.0	9.2	27.1	184.8	0.09	0.15
5/3/2001 11:03	0.45	4.05	1.08	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.07	4.09	1.18	861408	83063	19481	132503	86409	1212875	9.3	56.1	14.7	35.4	184.8	0.05	0.20
5/3/2001 11:04	0.22	4.34	1.88	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	0.91	4.38	1.98	861408	83063	19481	132503	86409	1212875	7.8	54.2	24.3	39.3	184.8	0.04	0.21
5/3/2001 11:05	0.35	3.76	2.44	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.00	3.81	2.56	861408	83063	19481	132503	86409	1212875	8.9	47.2	31.7	39.5	184.8	0.05	0.21
5/3/2001 11:06	0.35	3.46	2.24	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.03	3.48	2.36	861408	83063	19481	132503	86409	1212875	8.9	43.1	29.2	36.2	184.8	0.05	0.20
5/3/2001 11:07	0.20	3.14	1.86	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	0.68	3.18	1.68	861408	83063	19481	132503	86409	1212875	5.7	39.2	20.9	30.0	184.8	0.04	0.16
5/3/2001 11:08	0.67	2.79	1.38	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	0.76	2.72	1.38	861408	83063	19481	132503	86409	1212875	6.6	33.7	17.1	25.4	184.8	0.04	0.14
5/3/2001 11:09	0.92	2.28	1.09	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	0.72	2.27	1.10	861408	83063	19481	132503	86409	1212875	8.2	28.1	14.6	21.4	184.8	0.02	0.12
5/3/2001 11:10	0.10	1.68	0.79	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	0.79	1.67	0.80	861408	83063	19481	132503	86409	1212875	0.8	23.1	10.4	16.9	184.8	0.04	0.09
5/3/2001 11:11	0.17	1.68	0.61	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	0.06	1.68	0.71	861408	83063	19481	132503	86409	1212875	1.5	20.6	8.8	14.7	184.8	0.04	0.08
5/3/2001 11:12	0.22	1.67	0.71	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	0.81	1.68	0.81	861408	83063	19481	132503	86409	1212875	2.0	24.5	10.1	17.3	184.8	0.04	0.09
5/3/2001 11:13	0.67	2.23	0.92	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	1.34	2.24	0.72	861408	83063	19481	132503	86409	1212875	11.8	27.7	8.9	18.3	184.8	0.06	0.10
5/3/2001 11:14	0.77	2.12	0.83	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	1.43	2.13	1.04	861408	83063	19481	132503	86409	1212875	13.4	26.3	12.6	19.8	184.8	0.07	0.11
5/3/2001 11:15	0.54	1.86	0.68	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	1.22	1.85	0.78	861408	83063	19481	132503	86409	1212875	10.6	24.2	9.4	16.8	184.8	0.06	0.09
5/3/2001 11:16	0.28	1.77	0.59	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	1.03	1.77	0.66	861408	83063	19481	132503	86409	1212875	8.8	21.8	8.2	15.0	184.8	0.05	0.08
5/3/2001 11:17	0.64	1.69	0.44	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	1.31	1.69	0.53	861408	83063	19481	132503	86409	1212875	11.4	20.8	6.6	13.7	184.8	0.06	0.07
5/3/2001 11:18	0.64	1.71	0.71	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	1.30	1.71	0.80	861408	83063	19481	132503	86409	1212875	11.1	21.2	10.0	15.6	184.8	0.07	0.08
5/3/2001 11:19	0.35	1.46	0.83	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	1.03	1.46	1.03	861408	83063	19481	132503	86409	1212875	8.9	18.1	12.7	15.4	184.8	0.05	0.08
5/3/2001 11:20	0.67	1.73	0.98	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	0.76	1.73	0.98	861408	83063	19481	132503	86409	1212875	6.6	21.3	12.3	16.8	184.8	0.04	0.09
5/3/2001 11:21	0.27	1.64	0.65	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	0.65	1.64	0.85	861408	83063	19481	132503	86409	1212875	2.3	22.8	11.6	17.3	184.8	0.04	0.09
5/3/2001 11:22	0.46	2.05	1.28	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.12	2.05	1.36	861408	83063	19481	132503	86409	1212875	9.7	25.4	16.8	21.1	184.8	0.05	0.11
5/3/2001 11:23	0.79	2.24	1.02	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.45	2.25	1.12	861408	83063	19481	132503	86409	1212875	12.0	27.6	13.9	20.9	184.8	0.07	0.11
5/3/2001 11:24	0.74	1.87	1.14	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.41	1.87	1.24	861408	83063	19481	132503	86409	1212875	12.2	23.2	15.5	19.3	184.8	0.07	0.10
5/3/2001 11:25	2.47	1.13	1.19	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	3.66	1.13	1.29	861408	83063	19481	132503	86409	1212875	30.5	13.8	16.0	15.0	184.8	0.14	0.08
5/3/2001 11:26	1.94	1.08	1.54	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	2.45	1.08	1.84	861408	83063	19481	132503	86409	1212875	21.3	13.5	20.4	16.8	184.8	0.12	0.09
5/3/2001 11:27	1.92	1.69	2.08	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	2.53	1.69	2.13	861408	83063	19481	132503	86409	1212875	22.0	20.9	29.4	23.7	184.8	0.12	0.13
5/3/2001 11:28	0.89	1.73	2.05	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.35	1.73	2.16	861408	83063	19481	132503	86409	1212875	13.5	21.5	28.8	24.1	184.8	0.07	0.13
5/3/2001 11:29	1.62	1.28	1.63	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	2.43	1.27	1.74	861408	83063	19481	132503	86409	1212875	21.1	15.8	21.5	18.8	184.8	0.11	0.10
5/3/2001 11:30	1.34	1.71	1.46	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.8	-0.1	5.8	1.98	1.71	1.57	861408	83063	19481	132503	86409	1212875	17.2	21.2	19.4	20.3	184.8	0.09	0.11
5/3/2001 11:31	0.72	1.85	1.47	NOX ONLINE 7	SO2 online 7, 19	RUN 1	-0.7	56.1	0.0	5.9	-0.1	5.8	1.36	1.86	1.58	861408	83063	19481	132503	86409	1212875	12.0	22.9	19.5	21.2	184.8	0.07	0.11

TIME	OBSERVED CONCENTRATION PPM			COMMENTS			CALIBRATION CORRECTIONS						CORRECTED PPM VALUES			FLOW MEASURMENTS SCFM						MASS EMISSIONS				EMISSION FACTOR		
							NOX ?		SO2 IN		SO2 OUT																	
	NOX COMP ?	SO2 IN	SO2 OUT	NOX	SO2	RUN NUMBER	0.0	54.3	0.0	5.0	-0.1	5.0	NOX - ?	SO2 IN	SO2 OUT	COLD-1	COLD-2	LAB	FURNACE A	FURNACE C	TOTAL	NOX LBS/HR	SO2 IN LBS/HR	SO2 OUT LBS/HR	AVERAGE SO2 LBS/HR	PRODUCTION TONS/HR	NOX LBS/TON	SO2 LBS/TON
5/3/2001 11:32	0.69	1.93	0.09	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.38	1.83	0.78	861408	93083	19481	132503	86408	1212975	11.8	23.9	9.8	16.8	184.8	0.06	0.09
5/3/2001 11:33	0.84	2.17	0.84	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.80	2.16	0.84	861408	93083	19481	132503	86408	1212975	15.1	27.0	11.7	19.3	184.8	0.07	0.10
5/3/2001 11:34	0.82	2.48	1.59	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.57	2.49	1.70	861408	93083	19481	132503	86408	1212975	13.7	30.5	21.1	25.8	184.8	0.07	0.14
5/3/2001 11:35	0.82	2.61	2.18	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.57	2.63	2.30	861408	93083	19481	132503	86408	1212975	13.7	32.5	28.5	30.5	184.8	0.07	0.17
5/3/2001 11:36	1.13	2.65	2.42	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.70	2.68	2.34	861408	93083	19481	132503	86408	1212975	15.3	33.0	31.4	32.2	184.8	0.08	0.17
5/3/2001 11:37	1.28	2.73	2.62	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.93	2.75	2.74	861408	93083	19481	132503	86408	1212975	16.8	34.0	34.6	34.0	184.8	0.09	0.18
5/3/2001 11:38	1.32	3.04	1.97	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.93	3.08	2.08	861408	93083	19481	132503	86408	1212975	17.0	37.5	25.8	31.8	184.8	0.09	0.17
5/3/2001 11:39	1.57	3.45	0.88	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	2.00	3.48	0.98	861408	93083	19481	132503	86408	1212975	17.4	43.1	12.3	27.7	184.8	0.09	0.15
5/3/2001 11:40	0.97	4.24	2.28	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.62	4.28	2.31	861408	93083	19481	132503	86408	1212975	14.1	53.0	31.1	42.0	184.8	0.08	0.23
5/3/2001 11:41	0.40	5.36	6.88	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.07	5.41	6.91	861408	93083	19481	132503	86408	1212975	9.3	67.0	92.0	84.5	184.8	0.05	0.35
5/3/2001 11:42	0.39	6.02	7.15	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.08	6.76	7.52	861408	93083	19481	132503	86408	1212975	11.6	82.9	90.6	86.9	184.8	0.06	0.47
5/3/2001 11:43	1.12	7.62	7.48	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.79	7.71	7.66	861408	93083	19481	132503	86408	1212975	15.3	95.5	84.9	85.2	184.8	0.08	0.52
5/3/2001 11:44	1.22	8.69	7.33	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.88	8.13	7.50	861408	93083	19481	132503	86408	1212975	18.2	100.7	92.9	96.5	184.8	0.08	0.52
5/3/2001 11:45	1.19	6.50	4.76	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.84	6.56	4.90	861408	93083	19481	132503	86408	1212975	16.0	81.4	60.7	71.1	184.8	0.09	0.38
5/3/2001 11:46	1.04	5.22	4.58	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.68	5.27	4.73	861408	93083	19481	132503	86408	1212975	14.7	65.3	58.6	62.0	184.8	0.08	0.34
5/3/2001 11:47	0.48	4.18	2.09	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.17	4.20	2.51	861408	93083	19481	132503	86408	1212975	10.2	52.0	34.8	43.4	184.8	0.05	0.23
5/3/2001 11:48	0.12	3.30	2.74	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	0.61	3.32	2.86	861408	93083	19481	132503	86408	1212975	7.0	41.1	35.4	38.3	184.8	0.04	0.21
5/3/2001 11:49	0.19	3.60	3.03	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	0.79	3.97	3.16	861408	93083	19481	132503	86408	1212975	8.8	49.1	39.1	44.1	184.8	0.04	0.24
5/3/2001 11:50	0.32	4.79	1.86	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.00	4.84	1.99	861408	93083	19481	132503	86408	1212975	8.7	59.8	24.7	42.3	184.8	0.05	0.23
5/3/2001 11:51	0.27	4.33	1.36	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.05	4.37	1.48	861408	93083	19481	132503	86408	1212975	9.1	54.1	18.4	36.2	184.8	0.05	0.20
5/3/2001 11:52	0.30	4.08	1.08	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	0.98	4.12	1.16	861408	93083	19481	132503	86408	1212975	8.5	51.1	14.4	32.7	184.8	0.05	0.18
5/3/2001 11:53	0.32	4.61	1.15	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.00	4.66	1.25	861408	93083	19481	132503	86408	1212975	8.7	57.7	15.5	36.6	184.8	0.05	0.20
5/3/2001 11:54	0.27	5.18	1.19	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	0.95	5.25	1.29	861408	93083	19481	132503	86408	1212975	8.3	65.0	16.9	40.5	184.8	0.04	0.22
5/3/2001 11:55	0.13	4.39	1.53	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	0.61	4.63	1.64	861408	93083	19481	132503	86408	1212975	7.0	57.4	20.3	38.8	184.8	0.04	0.21
5/3/2001 11:56	-0.13	3.88	2.71	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	0.57	3.90	2.83	861408	93083	19481	132503	86408	1212975	5.0	46.2	35.0	41.6	184.8	0.03	0.23
5/3/2001 11:57	-0.06	4.28	3.00	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	0.62	4.30	3.13	861408	93083	19481	132503	86408	1212975	5.4	53.6	38.7	46.2	184.8	0.03	0.25
5/3/2001 11:58	0.00	4.79	2.29	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	0.66	4.84	2.40	861408	93083	19481	132503	86408	1212975	6.0	59.8	29.7	44.8	184.8	0.03	0.24
5/3/2001 11:59	0.06	5.12	1.07	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	0.74	5.17	1.17	861408	93083	19481	132503	86408	1212975	6.4	64.0	14.5	39.3	184.8	0.03	0.21
5/3/2001 12:00	0.07	4.79	0.79	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	0.79	4.84	0.99	861408	93083	19481	132503	86408	1212975	6.8	59.8	10.7	35.3	184.8	0.04	0.19
5/3/2001 12:01	0.02	4.18	0.73	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	0.72	4.21	0.85	861408	93083	19481	132503	86408	1212975	6.2	52.2	10.5	31.3	184.8	0.03	0.17
5/3/2001 12:02	-0.15	2.79	0.73	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	0.56	2.79	0.83	861408	93083	19481	132503	86408	1212975	4.8	34.6	10.3	22.4	184.8	0.03	0.12
5/3/2001 12:03	-0.25	2.69	0.59	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	0.48	2.92	0.68	861408	93083	19481	132503	86408	1212975	3.9	36.1	8.5	22.3	184.8	0.02	0.12
5/3/2001 12:04	0.02	2.93	0.48	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	0.72	2.94	0.88	861408	93083	19481	132503	86408	1212975	6.2	36.5	7.2	21.8	184.8	0.03	0.12
5/3/2001 12:05	0.07	3.13	0.43	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.34	3.16	0.52	861408	93083	19481	132503	86408	1212975	11.6	39.1	6.4	22.8	184.8	0.06	0.12
5/3/2001 12:06	1.32	3.51	0.64	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.95	3.54	0.74	861408	93083	19481	132503	86408	1212975	17.0	43.8	9.2	29.5	184.8	0.09	0.14
5/3/2001 12:07	1.24	4.01	0.77	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.86	4.04	0.87	861408	93083	19481	132503	86408	1212975	16.4	50.1	10.8	30.4	184.8	0.09	0.16
5/3/2001 12:08	1.12	4.35	0.63	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.76	4.40	0.73	861408	93083	19481	132503	86408	1212975	15.3	54.4	9.1	31.8	184.8	0.08	0.17
5/3/2001 12:09	1.04	4.77	0.48	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.68	4.82	0.54	861408	93083	19481	132503	86408	1212975	14.7	59.7	6.7	33.2	184.8	0.08	0.18
5/3/2001 12:10	0.87	5.32	0.58	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.53	5.37	0.65	861408	93083	19481	132503	86408	1212975	13.3	66.5	8.1	37.3	184.8	0.07	0.20
5/3/2001 12:11	0.89	5.34	0.61	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.56	5.39	0.71	861408	93083	19481	132503	86408	1212975	13.9	66.9	8.8	37.8	184.8	0.08	0.20
5/3/2001 12:12	0.97	5.10	0.83	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.24	5.15	0.93	861408	93083	19481	132503	86408	1212975	10.8	63.8	11.5	37.6	184.8	0.06	0.20
5/3/2001 12:13	0.57	4.70	0.82	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.24	4.74	0.92	861408	93083	19481	132503	86408	1212975	10.8	59.7	11.4	35.1	184.8	0.06	0.19
5/3/2001 12:14	0.68	4.41	0.75	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.36	4.45	0.85	861408	93083	19481	132503	86408	1212975	11.8	56.1	10.5	32.8	184.8	0.06	0.18
5/3/2001 12:15	0.72	3.89	0.37	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.38	3.92	0.48	861408	93083	19481	132503	86408	1212975	12.0	49.5	5.7	27.1	184.8	0.07	0.15
5/3/2001 12:16	1.32	3.33	0.33	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.95	3.36	0.42	861408	93083	19481	132503	86408	1212975	17.0	41.5	5.2	23.4	184.8	0.09	0.13
5/3/2001 12:17	1.44	3.56	1.39	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	4.85	3.57	1.40	861408	93083	19481	132503	86408	1212975	42.9	44.3	17.3	30.8	184.8	0.23	0.17
5/3/2001 12:18	7.01	4.45	2.66	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	7.38	4.47	2.78	861408	93083	19481	132503	86408	1212975	64.2	56.3	34.4	44.9	184.8	0.35	0.24
5/3/2001 12:19	7.89	3.89	3.62	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	8.00	2.91	3.08	861408	93083	19481	132503	86408	1212975	69.8	36.1	37.7	36.9	184.8	0.38	0.20
5/3/2001 12:20	7.41	3.20	3.45	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	7.77	3.22	3.56	861408	93083	19481	132503	86408	1212975	67.5	39.9	44.3	42.1	184.8	0.37	0.23
5/3/2001 12:21	6.41	4.13	4.47	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	6.81	4.17	4.61	861408	93083	19481	132503	86408	1212975	59.2	51.6	57.1	54.3	184.8	0.32	0.29
5/3/2001 12:22	6.54	4.21	4.46	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	6.85	4.25	4.60	861408	93083	19481	132503	86408	1212975	60.3	52.6	57.0	54.8	184.8	0.33	0.30
5/3/2001 12:23	5.19	4.04	4.36	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	5.65	4.08	4.50	861408	93083	19481	132503	86408	1212975	48.1	50.1	56.1	53.1	184.8	0.27	0.31
5/3/2001 12:24	2.17	4.87	4.38	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	2.76	5.02	4.45	861408	93083	19481	132503	86408	1212975	24.6	62.2	55.2	58.7	184.8	0.13	0.32
5/3/2001 12:25	1.14	5.89	2.75	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.79	5.94	2.90	861408	93083	19481	132503	86408	1212975	15.5	66.2	36.0	51.1	184.8	0.08	0.28
5/3/2001 12:26	0.88	5.80	1.91	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.55	5.08	1.92	861408	93083	19481	132503	86408	1212975	13.5	63.0	23.6	43.4	184.8	0.07	0.23
5/3/2001 12:27	0.89	4.64	1.47	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.54	4.68	1.56	861408	93083	19481	132503	86408	1212975	14.3	56.1	19.6	36.8	184.8	0.08	0.21
5/3/2001 12:28	0.89	4.96	1.30	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.56	4.93	1.40	861408	93083	19481	132503	86408	1212975	13.5	57.3	17.4	37.4	184.8	0.07	0.20
5/3/2001 12:29	1.42	4.11	0.94	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	2.05	4.15	1.04	861408	93083	19481	132503	86408	1212975	17.5	51.4	12.8	32.1	184.8	0.10	0.17
5/3/2001 12:30	3.19	3.39	1.06	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	3.74	3.42	1.16	861408	93083	19481	132503	86408	1212975	32.5	42.5	14.5	28.3	184.8	0.18	0.15
5/3/2001 12:31	3.22	3.25	1.41	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	3.78	3.27	1.51	861408	93083	19481	132503	86408	1212975	32.7	40.5	18.8	29.6	184.8	0.18	0.16
5/3/2001 12:32	1.67	2.51	0.87	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	2.29	2.52	1.07	861408	93083	19481	132503	86408	1212975	18.9	31.3	13.2	22.2	184.8	0.11	0.12
5/3/2001 12:33	0.82	2.79	0.72	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.46	2.81	0.92	861408	93083	19481	132503	86408	1212975	12.9	34.6	10.1	22.4	184.8	0.07	0.12
5/3/2001 12:34	0.54	3.39	0.56	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.22	3.42	0.68	861408	93083	19481	132503	86408	1212975	10.8	42.3	8.4	25.4	184.8	0.06	0.14
5/3/2001 12:35	0.12	3.61	0.53	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	0.61	3.64	0.81	861408	93083	19481	132503	86408	1212975	7.0	45.1	7.6	26.3	184.8	0.04	0.14
5/3/2001 12:36	0.42	3.34	1.40	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.10	3.37	1.50	861408	93083	19481	132503	86408	1212975	8.5	44.2	18.6	31.4	184.8	0.05	0.17
5/3/2001 12:37	0.79	4.08	1.34	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.45	4.12	1.64	861408	93083	19481	132503	86408	1212975	12.6	51.0	20.4	35.7	184.8	0.07	0.19
5/3/2001 12:38	0.77	4.12	1.34	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.43	4.16	1.65	861408	93083	19481	132503	86408	1212975	12.4	51.5	24.1	37.8	184.8	0.07	0.20
5/3/2001 12:39	0.82	3.81	1.60	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.48	3.84	1.71	861408	93083	19481	132503	86408	1212975	12.8	47.5	21.2	34.3	184.8	0.07	0.19
5/3/2001 12:40	1.14	4.97	1.26	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.79	5.03	1.47	861408	93083	19481	132503	86408	1212975	15.5	62.2	16.2	40.2	184.8	0.08	0.22
5/3/2001 12:41	0.89	5.66	1.22	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.58	5.83	1.43	861408	93083	19481	132503	86408	1212975	13.5	73.4	17.7	45.6	184.8	0.07	0.25
5/3/2001 12:42	1.17	5.13	0.99	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	1.61	5.19	1.09	861408	93083	19481	132503	86408	1212975	13.7	64.2	13.5	38.9	184.8	0.08	0.21
5/3/2001 12:43	2.18	4.90	0.86	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	2.79	4.94	0.95	861408	93083	19481	132503	86408	1212975	24.2	61.2	11.9	36.3	184.8	0.13	0.20
5/3/2001 12:44	2.57	5.51	1.01	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	3.13	5.57	1.11	861408	93083	19481	132503	86408	1212975	27.3	69.9	13.7	41.3	184.8	0.15	0.22
5/3/2001 12:45	2.64	5.21	0.87	NOX ONLINE ?	SO2 online ?, 19	RUN 1	-0.7	56.1	0.0	5.0	-0.1	5.0	3.41	5.27	1.07	861408	93083	19481	132503	86408	1212975	29.6	65.3	13.2	39.2	184.8	0.16	0.21
						RUN 1 Average							1.77	3.80	2.03	861408	93083	19481	132503	86408	1212975	15.4	39.7	25.2	32.4	184.8	0.08	0.18
5/3/2001 12:46	2.57	4.38	1.01	CALS	CALS	WAIT	-0.7	56.1	0.0	5.0	-0.1	5.0	3.15	4.42	1.11													
5/3/2001 12:47	2.52	1.47	0.28	CALS	CALS	WAIT	-0.7	56.1	0.0	5.0	-0.1	5.0	3.10	1.07	0.38													
5/3/2001 12:48	2.52	0.19	-0.08	CALS	cal zero	WAIT	-0.7	56.1	0.0	5.0	-0.1	5.0	3.10	0.17	0.01													
5/3/2001 12:49	2.27	0.05	-0.14	CALS	cal zero	WAIT	-0.7	56.1	0.0	5.0	-0.1	5.0	2.86	0.02	-0.05													
5/3/2001 12:50	1.74	0.02	-0.15	CALS	cal zero	WAIT	-0.7	56.1	0.0	5.0	-0.1	5.0	2.36	-0.01	-0.09													

TIME	OBSERVED CONCENTRATION PPM			COMMENTS			CALIBRATION CORRECTIONS						CORRECTED PPM VALUES			FLOW MEASURMENTS SCFM						MASS EMISSIONS				EMISSION FACTOR		
							NOX 7		SO2 IN		SO2 OUT																	
	NOX COMP 7	SO2 IN	SO2 OUT	NOX	SO2	RUN NUMBER	0.0	34.3	0.0	0.0	0.0	0.0	NOX - 7	SO2 IN	SO2 OUT	COLD-1	COLD-2	LAP	FURNACE A	FURNACE C	TOTAL	NOX LB/HR	SO2 IN LB/HR	SO2 OUT LB/HR	AVERAGE SO2 LB/HR	PRODUCTION TONS/HR	NOX LB/TON	SO2 LB/TON
5/3/2001 12:31	1.46	0.00	-0.10	CALS	not zero	WAIT	-0.7	34.1	0.0	0.0	-0.1	0.0	2.12	-0.03	-0.07													
5/3/2001 12:32	1.44	0.73	0.22	CALS	CALS	WAIT	-0.7	34.1	0.0	0.0	-0.1	0.0	2.07	0.72	0.21													
5/3/2001 12:33	1.23	4.27	3.64	CALS	CALS	WAIT	-0.7	34.1	0.0	0.0	-0.1	0.0	1.83	4.31	3.77													
5/3/2001 12:34	1.19	5.48	5.05	CALS	CALS	WAIT	-0.7	34.1	0.0	0.0	-0.1	0.0	1.84	5.47	5.20													
5/3/2001 12:35	1.22	5.62	5.33	CALS	CALS	WAIT	-0.7	34.1	0.0	0.0	-0.1	0.0	1.86	5.66	5.46													
5/3/2001 12:36	1.24	5.70	5.48	CALS	CALS	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	1.84	5.69	5.60													
5/3/2001 12:37	1.19	5.74	5.46	CALS	4x0 5.94	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	1.80	5.87	5.68													
5/3/2001 12:38	0.79	3.77	3.53	CALS	4x0 5.94	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	1.33	0.01	2.88													
5/3/2001 12:39	0.62	0.01	0.09	CALS	4x0 5.94	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	1.21	0.00	0.06													
5/3/2001 13:00	0.48	0.00	0.01	CALS	4x0 5.94	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	0.90	0.00	0.14													
5/3/2001 13:01	-0.23	0.00	0.07	CALS	CALS	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	0.77	0.04	0.55													
5/3/2001 13:02	0.05	0.00	0.38	0.0 CAL	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	0.04	0.04	3.34													
5/3/2001 13:03	-0.79	0.48	3.21	0.0 CAL	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	0.02	0.65	2.34													
5/3/2001 13:04	-0.73	1.35	2.22	0.0 CAL	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	0.02	1.46	1.36													
5/3/2001 13:05	-0.73	0.42	1.47	0.0 CAL	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	-0.01	0.77	1.51													
5/3/2001 13:06	-0.75	0.75	1.46	0.0 CAL	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	-0.01	0.80	1.79													
5/3/2001 13:07	-0.75	0.88	1.69	0.0 CAL	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	-0.01	0.38	2.05													
5/3/2001 13:08	-0.75	0.87	1.88	0.0 CAL	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	-0.01	2.37	1.90													
5/3/2001 13:09	-0.75	2.28	1.88	0.0 CAL	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	-0.01	3.15	2.84													
5/3/2001 13:10	-0.75	3.12	2.52	0.0 CAL	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	-0.01	4.71	4.52													
5/3/2001 13:11	-0.75	4.04	4.07	0.0 CAL	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	-0.01	5.90	4.87													
5/3/2001 13:12	-0.75	5.41	4.71	0.0 CAL	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	-0.01	5.36	3.88													
5/3/2001 13:13	-0.75	5.48	3.84	0.0 CAL	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	-0.01	2.72	4.36													
5/3/2001 13:14	-0.75	5.02	4.22	CALS	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	34.73	5.51	0.14													
5/3/2001 13:15	34.48	5.48	5.97	CALS	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	56.52	6.33	6.02													
5/3/2001 13:16	36.19	6.21	5.84	34.3 CAL	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	55.86	7.05	4.44													
5/3/2001 13:17	36.13	6.92	4.29	34.3 CAL	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	55.57	7.83	6.80													
5/3/2001 13:18	36.13	6.72	5.40	34.3 CAL	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	56.64	8.40	6.83													
5/3/2001 13:19	36.22	5.31	6.48	34.3 CAL	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	55.67	6.66	6.11													
5/3/2001 13:20	36.25	6.53	5.84	34.3 CAL	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	55.56	7.17	5.91													
5/3/2001 13:21	36.12	7.65	5.74	CALS	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	52.67	7.80	4.68													
5/3/2001 13:22	33.17	7.77	3.99	CALS	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	53.05	8.74	6.01													
5/3/2001 13:23	33.08	8.56	6.64	CALS	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	53.05	9.46	7.63													
5/3/2001 13:24	33.08	9.26	7.63	CALS	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	53.56	9.26	8.27													
5/3/2001 13:25	15.16	9.66	9.09	CALS	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	0.85	9.56	8.83													
5/3/2001 13:26	0.12	8.36	9.01	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	1.33	8.81	9.74													
5/3/2001 13:27	0.02	8.89	9.52	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	1.58	8.80	4.36													
5/3/2001 13:28	0.07	9.69	4.31	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	1.60	10.63	2.10													
5/3/2001 13:29	1.99	10.48	3.05	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	1.70	11.46	6.00													
5/3/2001 13:30	0.99	11.23	5.82	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	1.55	12.06	6.28													
5/3/2001 13:31	0.94	12.38	6.68	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	1.43	12.84	7.79													
5/3/2001 13:32	0.72	12.56	7.65	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	2.16	12.84	5.95													
5/3/2001 13:33	1.47	12.69	8.79	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	1.88	11.77	2.66													
5/3/2001 13:34	1.19	11.51	3.52	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	1.55	9.92	1.65													
5/3/2001 13:35	0.84	9.71	1.74	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	1.65	8.05	1.71													
5/3/2001 13:36	0.94	8.68	1.68	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	1.60	8.13	0.64													
5/3/2001 13:37	0.89	7.36	0.54	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	1.24	7.35	0.44													
5/3/2001 13:38	0.32	7.39	0.35	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	0.82	7.06	0.43													
5/3/2001 13:39	0.30	6.82	0.34	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	0.82	6.66	0.41													
5/3/2001 13:40	0.16	6.86	0.31	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	0.82	6.08	0.46													
5/3/2001 13:41	0.28	5.88	0.30	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	0.87	5.44	0.89													
5/3/2001 13:42	0.13	5.36	0.89	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	0.75	5.06	1.24													
5/3/2001 13:43	0.08	4.87	1.15	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	0.72	4.71	1.15													
5/3/2001 13:44	0.08	4.64	1.04	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	0.90	3.87	1.13													
5/3/2001 13:45	-0.13	3.83	1.05	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	0.48	3.28	1.13													
5/3/2001 13:46	-0.25	3.63	1.02	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	0.50	3.79	1.10													
5/3/2001 13:47	-0.23	3.75	1.00	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	0.55	5.04	1.09													
5/3/2001 13:48	-0.18	4.85	0.97	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	0.72	7.32	1.05													
5/3/2001 13:49	0.00	7.16	0.94	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	0.87	8.16	1.00													
5/3/2001 13:50	0.25	8.00	0.89	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	0.94	7.46	0.94													
5/3/2001 13:51	0.22	7.33	0.84	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	0.85	5.55	0.92													
5/3/2001 13:52	-0.05	5.24	0.81	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	0.85	4.77	0.88													
5/3/2001 13:53	-0.05	4.04	0.79	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	0.87	6.99	0.87													
5/3/2001 13:54	0.15	5.86	0.77	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	0.94	6.87	0.88													
5/3/2001 13:55	0.22	6.84	0.77	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	1.16	7.81	0.83													
5/3/2001 13:56	0.48	7.65	0.73	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	1.16	7.98	0.84													
5/3/2001 13:57	0.48	7.82	0.73	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	1.08	8.37	0.84													
5/3/2001 13:58	0.38	8.39	0.74	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	1.16	8.53	0.86													
5/3/2001 13:59	0.48	8.35	0.75	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	1.31	8.08	0.88													
5/3/2001 14:00	0.56	8.01	0.79	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	1.48	1.36	2.25													
5/3/2001 14:01	0.74	1.36	2.16	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	2.27	0.81	1.40													
5/3/2001 14:02	2.18	0.84	1.30	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	4.29	0.70	1.23													
5/3/2001 14:03	3.64	0.73	1.15	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	5.31	0.67	1.23													
5/3/2001 14:04	3.84	0.71	1.14	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	5.02	0.36	1.01													
5/3/2001 14:05	3.34	0.35	1.00	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	5.41	0.25	1.52													
5/3/2001 14:06	2.74	0.28	1.41	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	5.16	0.17	1.23													
5/3/2001 14:07	2.48	0.22	1.13	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	5.46	0.14	2.32													
5/3/2001 14:08	1.77	0.19	2.59	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	2.14	0.09	3.62													
5/3/2001 14:09	1.44	0.13	3.46	NOX ONLINE 7	BOX entire 7, 19	WAIT	-0.7	34.7	0.1	0.0	-0.1	0.0	2.92	0.11	4.61													
5/3/2001 14:10	2.24	0.16	4.46																									

TIME	OBSERVED CONCENTRATION PPM			COMMENTS			CALIBRATION CORRECTIONS						CORRECTED PPM VALUES			FLOW MEASURMENTS SCFM						MASS EMISSIONS				EMISSION FACTOR		
							NOX ?		SO2 IN		SO2 OUT																	
	NOX COMP ?	SO2 IN	SO2 OUT	NOX	SO2	RUN NUMBER	0.0	54.3	0.0	0.0	0.0	0.0	NOX - ?	SO2 IN	SO2 OUT	COLD-1	COLD-2	LMF	FURNACE A	FURNACE C	TOTAL	NOX LB/HR	SO2 IN LB/HR	SO2 OUT LB/HR	AVERAGE SO2 LB/HR	PRODUCTION TONS/HR	NOX LB/TON	SO2 LB/TON
5/3/2001 14:11	3.94	0.26	1.81	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	4.39	0.21	1.92													
5/3/2001 14:12	2.37	0.22	0.99	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	3.04	0.17	1.10													
5/3/2001 14:13	3.52	0.47	1.99	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	4.19	0.43	1.79													
5/3/2001 14:14	3.27	1.19	2.42	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	3.92	1.16	2.34													
5/3/2001 14:15	1.62	0.99	2.72	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	2.30	0.96	2.65													
5/3/2001 14:16	1.34	1.01	2.75	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	1.94	0.98	2.91													
5/3/2001 14:17	0.99	0.72	3.23	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	1.70	0.68	3.36													
5/3/2001 14:18	0.79	1.43	3.75	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	1.50	1.42	3.88													
5/3/2001 14:19	0.74	3.28	3.89	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	1.46	3.23	4.03													
5/3/2001 14:20	0.87	3.68	4.09	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	1.56	3.73	4.23													
5/3/2001 14:21	0.92	4.03	4.39	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	1.53	4.08	4.54													
5/3/2001 14:22	0.57	3.21	5.13	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	1.28	3.86	5.29													
5/3/2001 14:23	0.82	2.11	5.65	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	1.24	2.77	5.82													
5/3/2001 14:24	0.47	3.05	5.86	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	1.10	3.91	6.02													
5/3/2001 14:25	0.37	3.05	5.88	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	1.00	3.99	6.04													
5/3/2001 14:26	1.07	1.13	1.57	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	1.77	1.10	1.88													
5/3/2001 14:27	1.44	0.24	0.23	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	2.14	0.19	0.34													
5/3/2001 14:28	0.07	0.07	0.04	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	1.38	0.02	0.14													
5/3/2001 14:29	0.02	0.02	-0.03	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	0.75	-0.05	0.06													
5/3/2001 14:30	0.65	0.70	0.45	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	0.77	0.66	0.54													
5/3/2001 14:31	-0.03	4.39	3.77	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	0.79	4.32	3.91													
5/3/2001 14:32	-0.03	5.49	4.95	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	0.65	5.57	5.13													
5/3/2001 14:33	0.09	5.76	5.39	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	0.72	5.66	5.36													
5/3/2001 14:34	0.00	5.83	5.52	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	0.72	5.93	5.49													
5/3/2001 14:35	0.02	5.87	5.57	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	0.75	5.96	5.54													
5/3/2001 14:36	0.05	5.88	5.43	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	0.77	5.89	5.39													
5/3/2001 14:37	0.05	5.88	5.44	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	0.77	6.00	5.60													
5/3/2001 14:38	0.05	5.88	5.44	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	0.77	6.01	5.60													
5/3/2001 14:39	0.02	5.82	5.47	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	0.75	5.85	5.43													
5/3/2001 14:40	-0.03	5.63	5.74	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	0.70	5.64	5.90													
5/3/2001 14:41	-0.03	5.54	5.80	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	0.67	5.64	6.09													
5/3/2001 14:42	-0.05	5.05	5.94	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	0.67	6.06	6.11													
5/3/2001 14:43	0.00	5.59	5.92	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	0.72	6.07	6.08													
5/3/2001 14:44	-0.05	5.57	5.89	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	0.67	6.05	6.05													
5/3/2001 14:45	-0.05	5.58	5.92	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	0.70	6.06	6.10													
5/3/2001 14:46	0.15	4.65	4.87	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	0.87	4.94	5.13													
5/3/2001 14:47	0.28	1.43	1.70	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	0.62	1.42	1.81													
5/3/2001 14:48	0.45	1.89	2.10	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	1.18	0.97	2.26													
5/3/2001 14:49	0.00	1.61	2.19	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	1.00	1.39	2.31													
5/3/2001 14:50	0.94	2.39	1.71	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	1.65	2.29	1.83													
5/3/2001 14:51	0.57	1.21	1.40	NOX ONLINE ?	SO2 online 2, 14	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	1.38	1.50	1.51													
5/3/2001 14:52	0.54	1.39	1.65	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.36	1.57	1.75	877088	17714	13215	46828	151462	1108107	10.0	17.7	19.7	18.7	195	0.05	0.10
5/3/2001 14:53	0.62	2.13	2.89	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.33	2.13	2.83	877088	17714	13215	46828	151462	1108107	10.0	24.1	33.1	28.6	195	0.05	0.13
5/3/2001 14:54	0.62	1.73	1.97	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.33	1.72	2.09	877088	17714	13215	46828	151462	1108107	10.0	19.4	23.6	21.5	195	0.05	0.11
5/3/2001 14:55	0.52	1.65	2.59	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.24	1.64	2.72	877088	17714	13215	46828	151462	1108107	9.6	18.5	30.7	24.6	195	0.05	0.13
5/3/2001 14:56	0.42	2.22	3.48	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.14	2.22	3.62	877088	17714	13215	46828	151462	1108107	9.0	25.1	40.8	33.0	195	0.05	0.17
5/3/2001 14:57	0.32	2.89	5.01	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.04	3.00	5.14	877088	17714	13215	46828	151462	1108107	8.2	34.1	54.3	44.2	195	0.04	0.24
5/3/2001 14:58	0.25	2.91	5.67	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.97	2.91	5.84	877088	17714	13215	46828	151462	1108107	7.7	32.7	56.0	44.3	195	0.04	0.23
5/3/2001 14:59	0.05	0.68	5.28	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.77	0.65	5.41	877088	17714	13215	46828	151462	1108107	6.1	7.3	51.1	34.2	195	0.03	0.18
5/3/2001 15:00	0.07	1.08	5.72	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.80	1.05	5.86	877088	17714	13215	46828	151462	1108107	6.2	11.6	58.5	39.1	195	0.03	0.20
5/3/2001 15:01	0.47	2.76	4.67	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.19	2.79	4.82	877088	17714	13215	46828	151462	1108107	9.4	31.4	54.5	42.9	195	0.05	0.22
5/3/2001 15:02	2.09	3.85	4.01	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	2.70	3.81	4.79	877088	17714	13215	46828	151462	1108107	21.4	44.2	53.8	49.0	195	0.11	0.25
5/3/2001 15:03	3.97	3.97	4.38	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	4.80	4.02	4.43	877088	17714	13215	46828	151462	1108107	36.8	45.4	50.0	47.7	195	0.19	0.24
5/3/2001 15:04	3.01	3.03	2.37	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	3.55	3.08	2.48	877088	17714	13215	46828	151462	1108107	67.2	43.8	28.2	36.0	195	0.35	0.18
5/3/2001 15:05	0.39	2.39	1.77	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.82	2.28	1.66	877088	17714	13215	46828	151462	1108107	70.7	25.8	21.2	23.5	195	0.36	0.12
5/3/2001 15:06	0.89	2.69	1.75	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.90	2.68	1.68	877088	17714	13215	46828	151462	1108107	46.7	23.5	21.1	22.3	195	0.24	0.11
5/3/2001 15:07	2.44	4.01	3.19	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	3.11	4.08	3.32	877088	17714	13215	46828	151462	1108107	34.7	45.9	37.5	41.7	195	0.13	0.21
5/3/2001 15:08	2.69	3.71	4.11	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	3.36	3.75	4.28	877088	17714	13215	46828	151462	1108107	39.9	42.4	48.1	45.2	195	0.14	0.23
5/3/2001 15:09	3.22	3.37	3.89	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	3.87	3.41	3.97	877088	17714	13215	46828	151462	1108107	51.5	38.5	41.5	40.0	195	0.16	0.21
5/3/2001 15:10	5.07	4.09	4.10	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	5.08	4.14	4.25	877088	17714	13215	46828	151462	1108107	63.0	46.8	48.0	47.4	195	0.23	0.24
5/3/2001 15:11	4.09	4.04	3.44	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	4.72	4.71	3.56	877088	17714	13215	46828	151462	1108107	57.3	53.2	40.4	46.8	195	0.19	0.24
5/3/2001 15:12	2.77	4.11	1.90	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	3.43	4.17	1.81	877088	17714	13215	46828	151462	1108107	27.2	47.1	19.2	32.6	195	0.14	0.17
5/3/2001 15:13	2.44	2.58	0.87	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	3.11	2.60	0.97	877088	17714	13215	46828	151462	1108107	24.7	29.3	11.0	20.2	195	0.13	0.10
5/3/2001 15:14	2.69	1.62	1.50	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	3.36	1.61	1.13	877088	17714	13215	46828	151462	1108107	26.2	18.2	12.8	15.4	195	0.14	0.08
5/3/2001 15:15	2.77	1.17	1.57	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	3.43	1.14	1.18	877088	17714	13215	46828	151462	1108107	27.3	12.8	13.3	13.1	195	0.14	0.07
5/3/2001 15:16	1.87	1.08	0.65	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	2.36	0.99	1.08	877088	17714	13215	46828	151462	1108107	20.2	11.2	11.9	11.6	195	0.10	0.06
5/3/2001 15:17	1.32	0.89	0.71	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	2.02	0.93	0.81	877088	17714	13215	46828	151462	1108107	18.0	10.5	9.2	9.9	195	0.09	0.05
5/3/2001 15:18	0.84	1.01	0.43	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.55	0.99	0.53	877088	17714	13215	46828	151462	1108107	12.3	11.0	6.0	8.5	195	0.06	0.04
5/3/2001 15:19	0.49	1.11	0.24	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.11	1.08	0.33	877088	17714	13215	46828	151462	1108107	8.8	12.2	3.7	8.0	195	0.05	0.04
5/3/2001 15:20	0.22	0.35	0.22	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.94	0.30	0.31	877088	17714	13215	46828	151462	1108107	7.5	3.7	3.5	4.6	195	0.04	0.02
5/3/2001 15:21	0.20	0.05	0.21	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.92	0.01	0.30	877088	17714	13215	46828	151462	1108107	7.3	0.8	3.4	2.1	195	0.04	0.03
5/3/2001 15:22	0.30	0.34	0.13	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.02	0.30	0.22	877088	17714	13215	46828	151462	1108107	8.1	5.0	2.3	4.0	195	0.04	0.02
5/3/2001 15:23	0.57	0.41	0.09	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.38	0.37	0.17	877088	17714	13215	46828	151462	1108107	10.2	4.1	1.9	3.0	195	0.05	0.02
5/3/2001 15:24	0.57	0.20	0.05	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.38	0.25	0.14	877088	17714	13215	46828	151462	1108107	10.2	2.9	1.5	2.2	195	0.05	0.01
5/3/2001 15:25	0.47	0.21	0.05	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.19	0.15	0.15	877088	17714	13215	46828	151462	1108107	8.4	1.7	1.7	1.7	195	0.05	0.01
5/3/2001 15:26	0.37	0.20	0.05	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.09	0.15	0.10	877088	17714	13215	46828	151462	1108107	8.6	1.8	1.0	1.7	195	0.04	0.01
5/3/2001 15:27	0.27	0.27	0.04	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.99	0.32	0.14	877088	17714	13215	46828	151462	1108107	7.9	3.6	1.5	2.6	195	0.04	0.01
5/3/2001 15:28	0.25	0.27	0.21	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.97	0.32	0.30	877088	17714	13215	46828	151462	1108107	7.7	3.6	3.4	3.5	195	0.04	0.02
5/3/2001 15:29	0.17	0.25	0.21	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.89	0.30	0.41	877088	17714	13215	46828	151462	1108107	7.1	5.7	4.6	5.2	195	0.04	0.03

TIME	OBSERVED CONCENTRATION PPM			COMMENTS			CALIBRATION CORRECTIONS						CORRECTED PPM VALUES			FLOW MEASURMENTS SCFM						MASS EMISSIONS				EMISSION FACTOR		
							NOX ?		SO2 IN		SO2 OUT																	
	NOX COMP ?	SO2 IN	SO2 OUT	NOX	SO2	RUN NUMBER	0.0	54.7	0.0	0.0	-0.1	0.0	NOX - ?	SO2 IN	SO2 OUT	COLD-1	COLD-2	LIME	FURNACE A	FURNACE C	TOTAL	NOX LB/HR	SO2 IN LB/HR	SO2 OUT LB/HR	AVERAGE SO2 LB/HR	PRODUCTION TONS/HR	NOX LB/TON	SO2 LB/TON
5/3/2001 15:30	0.18	0.82	0.37	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.82	0.78	0.46	877066	17714	13215	46829	151462	1106107	8.3	8.9	5.2	7.0	195	0.03	0.04
5/3/2001 15:31	0.18	1.16	0.37	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.82	1.14	0.46	877066	17714	13215	46829	151462	1106107	8.3	12.9	7.5	10.2	195	0.03	0.05
5/3/2001 15:32	0.37	2.46	1.27	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.89	2.41	1.36	877066	17714	13215	46829	151462	1106107	7.9	27.3	15.5	21.4	195	0.04	0.11
5/3/2001 15:33	0.38	3.14	2.18	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.06	3.17	2.34	877066	17714	13215	46829	151462	1106107	9.4	35.8	25.3	30.6	195	0.04	0.16
5/3/2001 15:34	0.39	3.69	2.31	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.02	2.62	2.44	877066	17714	13215	46829	151462	1106107	9.1	29.6	27.5	28.5	195	0.04	0.15
5/3/2001 15:35	0.12	0.87	1.38	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.85	0.84	1.46	877066	17714	13215	46829	151462	1106107	6.7	9.5	16.5	13.0	195	0.03	0.07
5/3/2001 15:36	0.22	0.42	0.93	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.94	0.37	1.04	877066	17714	13215	46829	151462	1106107	7.5	4.2	11.7	8.0	195	0.04	0.04
5/3/2001 15:37	0.39	1.43	0.87	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.31	1.41	0.99	877066	17714	13215	46829	151462	1106107	10.4	15.9	11.0	13.5	195	0.05	0.07
5/3/2001 15:38	0.69	2.69	0.98	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.41	2.86	1.08	877066	17714	13215	46829	151462	1106107	11.1	32.3	12.2	22.2	195	0.06	0.11
5/3/2001 15:39	0.62	3.66	0.77	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.33	4.00	0.86	877066	17714	13215	46829	151462	1106107	10.6	45.2	9.6	27.6	195	0.05	0.14
5/3/2001 15:40	0.74	4.09	0.99	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.46	4.00	1.10	877066	17714	13215	46829	151462	1106107	11.5	46.1	12.4	29.3	195	0.06	0.15
5/3/2001 15:41	0.57	3.13	0.87	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.28	2.13	0.97	877066	17714	13215	46829	151462	1106107	10.2	24.0	11.0	17.5	195	0.05	0.09
5/3/2001 15:42	0.35	0.89	0.71	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.77	0.76	0.81	877066	17714	13215	46829	151462	1106107	8.1	8.6	9.1	8.9	195	0.03	0.05
5/3/2001 15:43	0.22	0.72	0.69	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.84	0.69	0.79	877066	17714	13215	46829	151462	1106107	7.5	7.7	8.9	8.3	195	0.04	0.04
5/3/2001 15:44	0.42	1.54	1.36	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.14	1.53	1.47	877066	17714	13215	46829	151462	1106107	9.0	17.2	16.6	16.9	195	0.05	0.09
5/3/2001 15:45	1.27	2.27	1.48	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.97	3.30	1.39	877066	17714	13215	46829	151462	1106107	16.8	37.3	17.9	27.6	195	0.08	0.14
5/3/2001 15:46	1.32	2.86	1.62	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	2.21	3.80	1.73	877066	17714	13215	46829	151462	1106107	17.5	44.1	19.5	31.8	195	0.09	0.16
5/3/2001 15:47	1.24	3.63	1.39	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.94	3.88	1.41	877066	17714	13215	46829	151462	1106107	15.4	41.5	15.9	28.7	195	0.08	0.15
5/3/2001 15:48	1.34	4.23	0.88	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	2.24	4.23	0.76	877066	17714	13215	46829	151462	1106107	17.7	48.5	8.6	28.6	195	0.09	0.15
5/3/2001 15:49	3.07	5.49	0.37	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	4.51	5.35	0.47	877066	17714	13215	46829	151462	1106107	34.2	62.7	5.3	34.0	195	0.18	0.17
5/3/2001 15:50	4.31	6.39	2.42	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	6.80	6.71	2.55	877066	17714	13215	46829	151462	1106107	54.7	75.6	29.8	52.3	195	0.28	0.27
5/3/2001 15:51	4.84	6.55	6.04	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	7.41	6.71	6.22	877066	17714	13215	46825	151462	1106107	59.7	75.7	70.2	73.0	195	0.30	0.37
5/3/2001 15:52	4.24	6.69	6.49	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	4.67	6.61	6.66	877066	17714	13215	46825	151462	1106107	38.6	78.8	75.3	79.1	195	0.20	0.39
5/3/2001 15:53	2.99	5.51	4.58	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	3.95	5.61	4.86	877066	17714	13215	46825	151462	1106107	29.2	63.4	52.8	58.1	195	0.14	0.30
5/3/2001 15:54	2.62	5.09	3.66	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	3.48	5.11	4.02	877066	17714	13215	46825	151462	1106107	27.0	57.7	43.4	51.6	195	0.14	0.26
5/3/2001 15:55	1.69	3.91	1.85	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	2.39	3.79	1.97	877066	17714	13215	46825	151462	1106107	18.9	54.4	22.2	43.3	195	0.10	0.22
5/3/2001 15:56	0.97	4.19	1.12	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	2.24	4.25	1.22	877066	17714	13215	46825	151462	1106107	25.7	44.0	13.6	30.9	195	0.13	0.16
5/3/2001 15:57	2.02	3.53	2.46	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	2.70	3.57	2.56	877066	17714	13215	46829	151462	1106107	21.4	40.3	29.1	34.7	195	0.11	0.18
5/3/2001 15:58	0.74	3.46	3.43	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.46	3.46	3.57	877066	17714	13215	46829	151462	1106107	11.5	39.4	40.3	39.8	195	0.06	0.20
5/3/2001 15:59	0.52	3.55	3.88	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.24	3.89	3.99	877066	17714	13215	46829	151462	1106107	9.8	40.6	45.1	42.9	195	0.05	0.22
5/3/2001 16:00	0.30	3.55	3.89	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.02	3.29	3.52	877066	17714	13215	46829	151462	1106107	8.1	37.1	39.8	38.5	195	0.04	0.20
5/3/2001 16:01	0.27	2.79	2.67	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.08	2.72	2.70	877066	17714	13215	46829	151462	1106107	8.8	30.7	30.5	30.6	195	0.04	0.16
5/3/2001 16:02	0.39	2.58	2.09	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.31	2.53	2.21	877066	17714	13215	46829	151462	1106107	10.4	28.6	25.0	26.8	195	0.05	0.14
5/3/2001 16:03	0.54	2.56	1.16	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.36	2.39	1.27	877066	17714	13215	46829	151462	1106107	10.9	26.7	14.3	20.5	195	0.06	0.11
5/3/2001 16:04	0.69	2.16	0.73	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.60	2.16	0.83	877066	17714	13215	46829	151462	1106107	12.7	24.4	9.4	16.9	195	0.07	0.09
5/3/2001 16:05	1.34	2.01	0.65	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	2.04	2.01	0.75	877066	17714	13215	46829	151462	1106107	16.2	22.7	8.5	15.6	195	0.08	0.09
5/3/2001 16:06	1.32	1.84	0.68	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	2.01	1.83	0.79	877066	17714	13215	46825	151462	1106107	17.5	20.7	9.0	14.8	195	0.09	0.08
5/3/2001 16:07	1.52	2.46	0.93	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	2.80	2.46	1.08	877066	17714	13215	46829	151462	1106107	19.9	27.8	11.7	19.7	195	0.10	0.10
5/3/2001 16:08	1.47	3.09	0.99	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	2.16	3.32	1.09	877066	17714	13215	46829	151462	1106107	17.1	37.8	12.0	24.7	195	0.09	0.13
5/3/2001 16:09	0.72	3.77	0.92	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.43	3.82	0.92	877066	17714	13215	46829	151462	1106107	11.3	43.2	10.4	26.8	195	0.06	0.14
5/3/2001 16:10	0.38	4.15	1.27	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.06	4.19	1.36	877066	17714	13215	46829	151462	1106107	8.4	47.5	15.5	31.4	195	0.04	0.16
5/3/2001 16:11	0.12	3.79	2.59	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.85	3.81	2.70	877066	17714	13215	46825	151462	1106107	6.7	43.0	30.5	36.8	195	0.03	0.19
5/3/2001 16:12	-0.09	3.14	2.69	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.70	3.13	2.78	877066	17714	13215	46829	151462	1106107	5.5	34.2	31.4	27.8	195	0.03	0.14
5/3/2001 16:13	-0.15	2.85	2.65	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.56	2.85	2.17	877066	17714	13215	46826	151462	1106107	4.6	23.1	24.5	23.8	195	0.02	0.12
5/3/2001 16:14	-0.16	4.57	1.81	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.95	4.64	1.82	877066	17714	13215	46825	151462	1106107	4.4	52.4	21.7	37.1	195	0.02	0.19
5/3/2001 16:15	-0.23	5.88	1.40	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.90	5.12	1.54	877066	17714	13215	46829	151462	1106107	4.8	57.8	17.4	37.6	195	0.02	0.19
5/3/2001 16:16	-0.25	5.91	0.99	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.48	5.46	0.98	877066	17714	13215	46829	151462	1106107	2.8	60.8	11.1	36.0	195	0.02	0.18
5/3/2001 16:17	-0.23	5.69	0.89	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.50	5.75	1.04	877066	17714	13215	46829	151462	1106107	4.0	65.3	11.7	38.5	195	0.02	0.20
5/3/2001 16:18	-0.20	3.87	1.17	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.48	3.71	1.28	877066	17714	13215	46829	151462	1106107	3.8	41.9	14.4	28.2	195	0.02	0.14
5/3/2001 16:19	-0.20	2.89	0.89	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.43	2.89	1.01	877066	17714	13215	46829	151462	1106107	3.4	32.5	11.4	21.9	195	0.02	0.11
5/3/2001 16:20	-0.25	2.03	0.91	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.43	2.26	0.91	877066	17714	13215	46829	151462	1106107	3.6	25.5	10.3	17.9	195	0.02	0.09
5/3/2001 16:21	-0.25	1.41	0.64	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.46	1.39	0.74	877066	17714	13215	46829	151462	1106107	3.8	15.7	8.4	12.0	195	0.02	0.06
5/3/2001 16:22	-0.13	1.09	0.79	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.58	1.00	0.80	877066	17714	13215	46829	151462	1106107	4.8	21.4	9.0	15.2	195	0.02	0.08
5/3/2001 16:23	-0.13	0.91	0.61	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.60	0.55	0.71	877066	17714	13215	46829	151462	1106107	4.8	40.8	8.1	24.4	195	0.02	0.12
5/3/2001 16:24	-0.16	0.85	0.58	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.63	0.56	0.64	877066	17714	13215	46825	151462	1106107	5.0	29.6	7.3	18.0	195	0.03	0.09
5/3/2001 16:25	-0.18	1.01	0.41	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.56	1.00	0.51	877066	17714	13215	46825	151462	1106107	4.6	20.3	5.8	13.1	195	0.02	0.07
5/3/2001 16:26	-0.18	1.78	0.45	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.56	1.78	0.56	877066	17714	13215	46829	151462	1106107	4.4	19.7	6.2	12.9	195	0.02	0.07
5/3/2001 16:27	-0.20	1.75	1.00	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.53	1.72	1.00	877066	17714	13215	46829	151462	1106107	4.2	19.5	20.3	19.9	195	0.02	0.10
5/3/2001 16:28	-0.20	1.30	1.37	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.53	1.27	1.48	877066	17714	13215	46829	151462	1106107	4.2	14.4	16.7	13.6	195	0.02	0.08
5/3/2001 16:29	0.37	1.26	1.08	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.09	1.23	1.18	877066	17714	13215	46829	151462	1106107	8.8	13.9	13.1	13.5	195	0.04	0.07
5/3/2001 16:30	1.09	1.28	0.84	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.80	1.30	1.05	877066	17714	13215	46829	151462	1106107	14.2	14.7	11.8	13.3	195	0.07	0.07
5/3/2001 16:31	0.87	1.11	0.69	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.58	1.09	0.79	877066	17714	13215	46829	151462	1106107	12.5	12.2	8.8	10.6	195	0.06	0.05
5/3/2001 16:32	0.54	0.88	0.61	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.26	0.80	0.61	877066	17714	13215	46829	151462	1106107	10.0	10.2	8.8	9.5	195	0.05	0.04
5/3/2001 16:33	0.32	0.84	0.49	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.04	0.81	0.58	877066	17714	13215	46829	151462	1106107	8.2	9.1	6.6	7.8	195	0.04	0.04
5/3/2001 16:34	0.13	0.84	0.69	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.87	0.91	0.79	877066	17714	13215	46829	151462	1106107	6.9	10.2	9.0	9.6	195	0.04	0.05
5/3/2001 16:35	0.07	0.77	0.65	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.80	0.73	0.73	877066	17714	13215	46829	151462	1106107	6.3	8.3	8.3	8.3	195	0.03	0.04
5/3/2001 16:36	0.02	0.76	0.83	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.75	0.72	0.84	877066	17714	13215	46829	151462	1106107	5.9	8.2	10.6	9.4	195	0.03	0.05
5/3/2001 16:37	0.02	0.79	0.89	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.75	0.66	1.00	877066	17714	13215	46829	151462	1106107	5.9	7.3	11.3	9.4	195	0.03	0.05
5/3/2001 16:38	0.09	0.81	0.48	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.72	0.57	0.58	877066	17714	13215	46829	151462	1106107	5.7	6.5	6.5	6.5	195	0.03	0.03
5/3/2001 16:39	0.07	0.82	0.57	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.80	0.59	0.67	877066	17714	13215	46829	151462	1106107	6.3	6.8	7.6	7.1	195	0.03	0.04
5/3/2001 16:40	0.05	0.87	0.73	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.73	0.84	0.84	877066	17714	13215	46829	151462	1106107	6.1	9.5	8.5	9.3	195	0.03	0.05
5/3/2001 16:41	0.05	1.19	0.89	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.72	1.18	1.01	877066	17714	13215	46829	151462	1106107	6.1	13.2	11.4	12.3	195	0.03	0.06
5/3/2001 16:42	0.25	0.89	1.07	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.97	0.93	1.79	877066	17714	13215	46829	151462	1106107	7.7	10.3	20.1	13.3	195	0.04	0.08
5/3/2001 16:43	0.57	1.11	1.66	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.28	1.08	1.74	877066	17714	13215	46829	151462	1106107	10.3	12.2	19.7	16.0	195	0.05	0.08
5/3/2001 16:44	0.49	1.62	1.75	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.21	1.61	1.87	877066	17714	13215	46829	151462	1106107	9.6	18.1	21.1	19.6	195	0.05	0.10
5/3/2001 16:45	0.37	1.73	1.87	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.09	1.72	1.99	877066	17714	13215	46829	151462	1106107	8.9	19.5	22.4	21.0	195	0.04	0.11
5/3/2001 16:46	0.47	2.05	1.91	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.19	2.05	1.92	877066	17714	13215	46829	151462	1106107	9.4	24.4	21.7	23.1	195	0.05	0.14
5/3/2001 16:47	0.64	2.59	1.97	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.36	2.63	2.09	877066	17714	13215	46829	151462	1106107	10.8	41.1	23.8	32.3	195	0.06	0.17
5/3/2001 16:48	0.52	2.53	2.49	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.24	2.29	3.03	877066	17714	13215	46829	151462	1106107	9.8	25.9	41.0	33.5	195	0.05	0.17
5/3/2001 16:49	0.46	1.87	3.08	NOX ONLINE ?	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.11	1.04	3.20	877066	17714	13215	46829	151462	1106107	8.8	11.7	36.1	23.9	195	0.05	0.12

TIME	OBSERVED CONCENTRATION PPM			COMMENTS			CALIBRATION CORRECTIONS						CORRECTED PPM VALUES			FLOW MEASURMENTS SCFM						MASS EMISSIONS				EMISSION FACTOR		
							NOX 7		SO2 IN		SO2 OUT																	
	NOX COMP 7	SO2 IN	SO2 OUT	NOX	SO2	RUN NUMBER	0.0	54.7	0.0	0.0	-0.1	0.0	NOX - 7	SO2 IN	SO2 OUT	COLD-1	COLD-2	LAP	FURNACE A	FURNACE C	TOTAL	NOX LB/HR	SO2 IN LB/HR	SO2 OUT LB/HR	AVERAGE SO2 LB/HR	PRODUCTION TONS/HR	NOX LB/TON	SO2 LB/TON
5/3/2001 16:30	0.46	2.37	1.82	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.21	2.89	1.94	677066	17714	13215	46628	151462	1108187	9.8	29.2	21.9	25.6	195	0.05	0.13
5/3/2001 16:31	0.47	2.69	1.34	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.19	3.04	1.45	677066	17714	13215	46628	151462	1108187	9.4	44.5	16.4	30.5	195	0.05	0.16
5/3/2001 16:32	0.47	4.74	0.99	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.19	4.82	1.09	677066	17714	13215	46628	151462	1108187	9.4	54.4	12.3	33.4	195	0.05	0.17
5/3/2001 16:33	0.49	2.71	1.34	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.21	2.90	1.45	677066	17714	13215	46628	151462	1108187	9.6	29.8	16.4	26.1	195	0.05	0.20
5/3/2001 16:34	2.19	4.77	3.15	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	2.67	4.85	3.28	677066	17714	13215	46628	151462	1108187	22.8	54.7	37.1	45.9	195	0.12	0.24
5/3/2001 16:35	2.09	4.68	4.25	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	6.99	4.79	4.46	677066	17714	13215	46628	151462	1108187	52.8	53.7	50.6	52.1	195	0.27	0.27
5/3/2001 16:36	6.61	4.26	3.89	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	7.30	4.32	4.13	677066	17714	13215	46628	151462	1108187	56.3	48.7	46.7	47.7	195	0.30	0.24
5/3/2001 16:37	4.67	4.21	4.39	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	4.70	4.27	4.44	677066	17714	13215	46628	151462	1108187	37.3	48.2	50.2	49.2	195	0.19	0.25
5/3/2001 16:38	2.79	4.66	4.69	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	3.46	4.69	4.81	677066	17714	13215	46628	151462	1108187	27.4	53.0	54.4	53.7	195	0.14	0.28
5/3/2001 16:39	2.27	4.38	3.81	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	2.84	4.39	4.06	677066	17714	13215	46628	151462	1108187	23.3	49.5	45.8	47.7	195	0.12	0.24
5/3/2001 17:00	2.33	3.70	2.21	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	2.80	3.81	2.33	677066	17714	13215	46628	151462	1108187	22.9	43.0	26.3	34.6	195	0.12	0.18
5/3/2001 17:01	2.02	3.47	0.98	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	2.70	3.51	1.09	677066	17714	13215	46628	151462	1108187	21.4	39.6	11.9	25.8	195	0.11	0.13
5/3/2001 17:02	1.74	3.04	0.48	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	2.43	3.09	0.51	677066	17714	13215	46628	151462	1108187	19.3	41.6	5.6	23.7	195	0.10	0.12
5/3/2001 17:03	1.69	4.01	0.88	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.80	4.07	0.99	677066	17714	13215	46628	151462	1108187	14.2	45.9	11.1	28.5	195	0.07	0.15
5/3/2001 17:04	0.92	4.33	2.16	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.24	4.39	2.30	677066	17714	13215	46628	151462	1108187	9.8	48.3	26.0	37.7	195	0.05	0.19
5/3/2001 17:05	0.25	4.65	2.62	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.97	4.70	2.65	677066	17714	13215	46628	151462	1108187	7.7	53.1	33.4	43.2	195	0.04	0.22
5/3/2001 17:06	0.22	4.78	3.37	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.94	4.85	3.50	677066	17714	13215	46628	151462	1108187	7.3	54.8	38.8	47.2	195	0.04	0.24
5/3/2001 17:07	0.39	4.26	2.19	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.02	4.02	2.31	677066	17714	13215	46628	151462	1108187	8.1	55.5	26.1	40.8	195	0.04	0.21
5/3/2001 17:08	0.47	4.04	0.85	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.19	4.02	0.95	677066	17714	13215	46628	151462	1108187	8.4	55.8	10.7	33.1	195	0.05	0.17
5/3/2001 17:09	0.54	3.55	0.67	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.28	3.56	0.67	677066	17714	13215	46628	151462	1108187	10.0	44.7	7.9	26.1	195	0.05	0.13
5/3/2001 17:10	0.37	3.09	0.67	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.09	3.40	0.77	677066	17714	13215	46628	151462	1108187	8.6	38.3	8.7	23.5	195	0.04	0.12
5/3/2001 17:11	0.22	1.81	0.68	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.84	1.80	0.75	677066	17714	13215	46628	151462	1108187	7.5	18.1	8.5	13.3	195	0.04	0.07
5/3/2001 17:12	0.77	1.88	0.88	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.46	1.90	0.84	677066	17714	13215	46628	151462	1108187	11.7	11.8	7.3	9.4	195	0.06	0.05
5/3/2001 17:13	1.09	1.11	0.84	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.60	1.08	0.94	677066	17714	13215	46628	151462	1108187	14.2	12.2	10.7	11.5	195	0.07	0.06
5/3/2001 17:14	0.92	0.84	0.79	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.31	0.81	0.80	677066	17714	13215	46628	151462	1108187	10.4	8.1	8.1	8.1	195	0.05	0.06
5/3/2001 17:15	0.25	0.84	0.79	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.97	0.80	0.80	677066	17714	13215	46628	151462	1108187	7.7	8.1	8.1	8.1	195	0.04	0.06
5/3/2001 17:16	0.12	0.83	0.80	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.85	0.80	0.76	677066	17714	13215	46628	151462	1108187	6.7	8.0	8.0	8.0	195	0.03	0.06
5/3/2001 17:17	0.36	0.78	0.80	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.92	0.67	0.66	677066	17714	13215	46628	151462	1108187	7.3	7.5	7.3	7.5	195	0.04	0.04
5/3/2001 17:18	0.22	0.72	0.84	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.94	0.66	0.74	677066	17714	13215	46628	151462	1108187	7.8	7.7	8.3	8.0	195	0.04	0.04
5/3/2001 17:19	0.25	1.73	1.05	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.97	1.72	2.06	677066	17714	13215	46628	151462	1108187	7.7	19.4	23.3	21.3	195	0.04	0.11
5/3/2001 17:20	0.37	3.38	3.84	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.09	3.42	3.16	677066	17714	13215	46628	151462	1108187	8.6	38.6	35.9	37.3	195	0.04	0.19
5/3/2001 17:21	0.48	3.34	4.02	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.21	3.37	4.18	677066	17714	13215	46628	151462	1108187	8.6	38.1	47.0	42.5	195	0.05	0.22
5/3/2001 17:22	0.32	3.55	3.13	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.04	3.59	3.25	677066	17714	13215	46628	151462	1108187	8.2	40.5	38.7	39.6	195	0.04	0.20
5/3/2001 17:23	0.12	2.68	1.59	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.85	2.68	1.67	677066	17714	13215	46628	151462	1108187	6.7	34.8	18.6	26.8	195	0.03	0.14
5/3/2001 17:24	0.10	2.62	0.85	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.82	2.62	0.98	677066	17714	13215	46628	151462	1108187	6.5	22.8	10.8	16.8	195	0.03	0.09
5/3/2001 17:25	0.02	0.83	1.08	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.75	0.80	1.18	677066	17714	13215	46628	151462	1108187	5.8	8.0	13.4	11.2	195	0.03	0.06
5/3/2001 17:26	0.15	0.91	1.89	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.87	0.89	2.04	677066	17714	13215	46628	151462	1108187	6.8	9.8	23.1	16.5	195	0.04	0.08
5/3/2001 17:27	0.20	2.37	2.35	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.92	2.37	2.45	677066	17714	13215	46628	151462	1108187	7.3	25.7	27.7	26.7	195	0.04	0.14
5/3/2001 17:28	0.10	2.47	1.49	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.82	2.48	1.51	677066	17714	13215	46628	151462	1108187	6.5	26.0	17.1	22.0	195	0.03	0.12
5/3/2001 17:29	0.12	2.68	1.54	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.85	2.71	1.65	677066	17714	13215	46628	151462	1108187	6.7	30.6	18.6	24.6	195	0.03	0.13
5/3/2001 17:30	0.26	2.80	1.88	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.06	2.82	1.15	677066	17714	13215	46628	151462	1108187	8.4	33.0	13.0	23.0	195	0.04	0.12
5/3/2001 17:31	0.02	1.21	0.49	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.14	1.18	0.58	677066	17714	13215	46628	151462	1108187	8.8	13.4	6.6	10.0	195	0.05	0.05
5/3/2001 17:32	0.27	0.92	0.57	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.99	0.96	0.67	677066	17714	13215	46628	151462	1108187	7.8	8.8	7.6	7.1	195	0.04	0.04
5/3/2001 17:33	0.08	1.02	0.85	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.41	0.99	0.65	677066	17714	13215	46628	151462	1108187	11.1	11.2	7.3	9.3	195	0.06	0.05
5/3/2001 17:34	0.77	2.38	0.44	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.46	2.50	0.53	677066	17714	13215	46628	151462	1108187	11.7	28.3	6.0	16.2	195	0.06	0.08
5/3/2001 17:35	0.92	3.11	0.48	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.33	3.14	0.48	677066	17714	13215	46628	151462	1108187	10.6	35.5	5.8	20.5	195	0.05	0.11
5/3/2001 17:36	0.37	2.67	0.35	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.23	2.67	0.44	677066	17714	13215	46628	151462	1108187	10.2	23.4	5.0	14.2	195	0.05	0.07
5/3/2001 17:37	0.94	2.15	0.37	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.36	2.16	0.47	677066	17714	13215	46628	151462	1108187	10.6	24.3	5.3	14.8	195	0.05	0.08
5/3/2001 17:38	0.92	2.24	0.57	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.33	2.26	0.66	677066	17714	13215	46628	151462	1108187	10.6	26.5	7.5	17.0	195	0.05	0.09
5/3/2001 17:39	1.34	6.39	0.61	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.94	6.71	0.71	677066	17714	13215	46628	151462	1108187	15.4	75.7	8.1	41.9	195	0.08	0.21
5/3/2001 17:40	2.48	6.79	2.17	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	3.16	6.92	2.29	677066	17714	13215	46628	151462	1108187	25.1	79.2	25.9	52.6	195	0.13	0.27
5/3/2001 17:41	2.27	5.76	2.73	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	2.94	5.75	2.86	677066	17714	13215	46628	151462	1108187	23.3	67.3	32.3	49.8	195	0.12	0.25
5/3/2001 17:42	2.22	5.58	2.15	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	2.87	5.59	2.70	677066	17714	13215	46628	151462	1108187	22.7	65.2	30.4	47.8	195	0.12	0.24
5/3/2001 17:43	1.34	5.38	2.02	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.94	5.42	2.66	677066	17714	13215	46628	151462	1108187	15.4	63.0	25.1	44.0	195	0.08	0.23
5/3/2001 17:44	0.72	5.38	2.86	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.43	5.40	3.68	677066	17714	13215	46628	151462	1108187	11.3	63.4	33.6	48.5	195	0.06	0.25
5/3/2001 17:45	0.79	5.35	2.86	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.50	5.38	3.70	677066	17714	13215	46628	151462	1108187	11.9	63.1	33.8	48.5	195	0.06	0.25
5/3/2001 17:46	0.37	5.21	3.47	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.09	5.24	3.61	677066	17714	13215	46628	151462	1108187	8.6	61.6	32.9	47.3	195	0.04	0.24
5/3/2001 17:47	0.27	5.01	3.13	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.99	5.03	3.31	677066	17714	13215	46628	151462	1108187	7.9	59.0	29.6	44.3	195	0.04	0.23
5/3/2001 17:48	0.22	5.05	3.04	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.94	5.08	3.08	677066	17714	13215	46628	151462	1108187	7.5	59.7	27.5	43.6	195	0.04	0.22
5/3/2001 17:49	0.20	5.09	3.05	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	0.92	5.13	2.99	677066	17714	13215	46628	151462	1108187	7.3	60.2	26.7	43.4	195	0.04	0.22
5/3/2001 17:50	0.37	4.84	4.54	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.09	4.88	4.69	677066	17714	13215	46628	151462	1108187	8.6	58.0	40.8	49.4	195	0.04	0.25
5/3/2001 17:51	0.47	4.84	4.76	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.19	4.81	4.92	677066	17714	13215	46628	151462	1108187	9.4	58.1	42.5	50.3	195	0.05	0.25
5/3/2001 17:52	0.57	3.88	4.69	NOX ONLINE 7	SO2 online 2, 14	RUN 2	-0.7	54.7	0.1	0.0	-0.1	0.0	1.29	3.93	4.75	677066	17714	13215	46628	151462	1108187	10.2	44.4	53.7	49.0	195	0.05	0.25
						RUN 2 Average							1.74	5.07	1.80							13.8	30.2	21.8	26.0	195	0.07	0.13
5/3/2001 17:53	0.77	2.31	4.44	CALB	CALB	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	1.46	2.31	4.59													
5/3/2001 17:54	0.74	2.69	4.74	CALB	CALB	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	1.46	2.82	4.90													
5/3/2001 17:55	0.49	1.82	2.53	CALB	CALB	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	1.11	1.81	2.35													
5/3/2001 17:56	0.22	0.32	0.31	CALB	CALB	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	0.94	0.27	0.40													
5/3/2001 17:57	0.20	0.07	-0.01	CALB	cal zero	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	0.92	0.02	0.06													
5/3/2001 17:58	0.17	0.08	-0.00	CALB	cal zero	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	0.89	-0.00	0.03													
5/3/2001 17:59	0.20	0.04	-0.07	CALB	cal zero	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	0.92	-0.02	0.02													
5/3/2001 18:00	0.77	2.83	2.78	CALB	CALB	WAIT	-0.7	54.7	0.1	0.0	-0.1	0.0	1.46	2.85	2.82													
5/3/2001 18:01	1.52	5.21	5.19	CALB	CALB	WAIT	-0.7	53.8	0.0	0.0	-0.1	0.0	2.05	5.25	5.30													
5/3/2001 18:02	1.84	5.79	5.93	CALB	CALB	WAIT	-0.7	53.8	0.0	0.0	-0.1	0.0	2.27	5.74	5.74													
5/3/2001 18:03	1.97	5.79	5.72	CALB	cal 5.94	WAIT	-0.7	53.8	0.0	0.0	-0.1	0.0	1.80	5.83	5.82													
5/3/2001 18:04	0.84	5.83	5.79	CALB	cal 5.94	WAIT	-0.75	53.82	0.035	5.89	-0.09	5.835	1.33	5.88	5.98													
5/3/2001 18:05	0.22	5.86	5.86	CALB	cal 5.94	WAIT	-0.75	53.82	0.035	5.89	-0.09	5.835	0.96	5.91	5.98													
5/3/2001 18:06	0.16	5.91	5.96	CALB	cal 5.94	WAIT	-0.75	53.82	0.035	5.89	-0.09	5.835	0.83	5.96	5.97													
5/3/2001 18:07	-0.13	5.89	5.89	CALB	cal 5.94	WAIT	-0.75	53.82	0.035	5.89	-0.09	5.835	0.61	5.95	6.01													
5/3/2001 18:08	36.54	3.53	4.38	CALB	CALB	WAIT	-0.75	53.82	0.035	5.89	-0.09	5.835	37.43	3.55	4.44													

TIME	OBSERVED CONCENTRATION PPM			COMMENTS			CALIBRATION CORRECTIONS						CORRECTED PPM VALUES			FLOW MEASURMENTS SCFM						MASS EMISSIONS				EMISSION FACTOR		
							NOX 7		SO2 IN		SO2 OUT																	
	NOX CONC 7	SO2 IN	SO2 OUT	NOX	SO2	RUN NUMBER	0.0	24.3	0.0	3.0	0.0	3.0	NOX - 7	SO2 IN	SO2 OUT	COLD-1	COLD-2	LAP	FURNACE A	FURNACE C	TOTAL	NOX LB/HR	SO2 IN LB/HR	SO2 OUT LB/HR	AVERAGE SO2 LB/HR	PRODUCTION TONS/HR	NOX LB/TON	SO2 LB/TON
5/3/2001 14:00	53.17	1.64	1.91	CALS	CALS	WAIT	-0.75	53.82	0.035	5.89	-0.09	5.835	53.56	1.83	2.00													
5/3/2001 14:10	53.89	2.07	1.23	84.0 CAL	CALS	WAIT	-0.75	53.82	0.035	5.89	-0.09	5.835	53.66	2.09	1.34													
5/3/2001 14:11	53.82	4.16	1.94	84.0 CAL	CALS	WAIT	-0.75	53.82	0.035	5.89	-0.09	5.835	53.71	4.18	1.12													
5/3/2001 14:12	53.36	4.58	0.88	84.0 CAL	CALS	WAIT	-0.75	53.82	0.035	5.89	-0.09	5.835	53.73	4.59	0.97													
5/3/2001 14:13	39.19	4.69	0.89	CALS	CALS	WAIT	-0.75	53.82	0.035	5.89	-0.09	5.835	39.08	4.72	0.88													
5/3/2001 14:14	4.39	4.74	0.89	CALS	CALS	WAIT	-0.75	53.82	0.035	5.89	-0.09	5.835	5.39	4.77	0.79													
5/3/2001 14:15	4.79	4.87	0.92	0.0 CAL	CALS	WAIT	-0.75	53.82	0.035	5.89	-0.09	5.835	5.04	4.70	0.81													
5/3/2001 14:16	4.79	4.84	0.75	0.0 CAL	CALS	WAIT	-0.75	53.82	0.035	5.89	-0.09	5.835	5.02	4.67	0.64													
5/3/2001 14:17	4.75	4.48	1.22	0.0 CAL	CALS	WAIT	-0.75	53.82	0.035	5.89	-0.09	5.835	-0.01	4.51	1.41													
5/3/2001 14:18	4.75	3.97	1.39	0.0 CAL	CALS	WAIT	-0.75	53.82	0.035	5.89	-0.09	5.835	-0.01	3.99	1.36													
5/3/2001 14:19	4.73	3.79	1.16	0.0 CAL	CALS	WAIT	-0.75	53.82	0.035	5.89	-0.09	5.835	-0.01	3.76	1.18													
5/3/2001 14:20	4.75	3.48	0.75	0.0 CAL	CALS	WAIT	-0.75	53.82	0.035	5.89	-0.09	5.835	-0.01	3.45	0.83													
5/3/2001 14:21	4.39	3.11	0.42	CALS	CALS	WAIT	-0.75	53.82	0.035	5.89	-0.09	5.835	5.44	3.12	0.51													
5/3/2001 14:22	4.39	2.95	0.36	CALS	CALS	WAIT	-0.75	53.82	0.035	5.89	-0.09	5.835	5.34	2.98	0.40													
5/3/2001 14:23	4.39	2.45	0.36	CALS	CALS	WAIT	-0.75	53.82	0.035	5.89	-0.09	5.835	5.54	2.45	0.44													
5/3/2001 14:24	4.09	1.39	0.39	CALS	CALS	WAIT	-0.75	53.82	0.035	5.89	-0.09	5.835	5.46	1.29	0.47													
5/3/2001 19:25	0.39	3.98	0.89	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	0.83	3.93	0.89	864161	5341	20943	52799	169471	1132345	7.8	45.4	11.4	28.4	191.8	0.04	0.15
5/3/2001 19:26	0.48	6.81	0.95	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.18	6.87	1.04	864161	5341	20943	52799	169471	1132345	9.6	79.4	12.1	45.7	191.8	0.05	0.24
5/3/2001 19:27	0.38	5.82	1.00	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.03	5.71	1.15	864161	5341	20943	52799	169471	1132345	8.4	100.7	13.3	57.0	191.8	0.04	0.30
5/3/2001 19:28	0.48	9.39	1.05	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.18	9.36	1.15	864161	5341	20943	52799	169471	1132345	9.6	108.6	13.3	61.0	191.8	0.05	0.32
5/3/2001 19:29	0.58	8.85	1.41	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.33	8.15	1.50	864161	5341	20943	52799	169471	1132345	10.8	94.0	17.3	55.7	191.8	0.06	0.29
5/3/2001 19:30	0.25	6.90	1.15	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	0.98	7.04	1.24	864161	5341	20943	52799	169471	1132345	8.0	81.4	14.3	47.9	191.8	0.04	0.25
5/3/2001 19:31	0.12	6.46	0.79	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	0.86	6.50	0.82	864161	5341	20943	52799	169471	1132345	7.0	75.2	9.5	42.3	191.8	0.04	0.22
5/3/2001 19:32	0.15	6.00	0.81	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	0.89	6.14	0.90	864161	5341	20943	52799	169471	1132345	7.2	71.0	10.4	40.7	191.8	0.04	0.21
5/3/2001 19:33	0.27	5.79	0.59	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.01	5.74	0.64	864161	5341	20943	52799	169471	1132345	8.2	68.4	7.4	38.0	191.8	0.04	0.19
5/3/2001 19:34	0.62	5.75	0.61	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.36	5.76	0.70	864161	5341	20943	52799	169471	1132345	11.0	68.8	8.1	37.5	191.8	0.06	0.20
5/3/2001 19:35	0.66	5.81	0.63	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.43	5.88	0.71	864161	5341	20943	52799	169471	1132345	11.8	68.9	8.3	38.0	191.8	0.06	0.20
5/3/2001 19:36	0.52	6.01	0.66	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.06	6.07	0.75	864161	5341	20943	52799	169471	1132345	8.6	77.1	8.7	42.6	191.8	0.04	0.22
5/3/2001 19:37	0.48	5.39	0.85	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.23	5.35	0.89	864161	5341	20943	52799	169471	1132345	10.0	61.3	10.2	35.8	191.8	0.05	0.19
5/3/2001 19:38	1.44	3.41	0.89	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	2.17	3.42	0.89	864161	5341	20943	52799	169471	1132345	17.6	38.8	10.3	24.9	191.8	0.09	0.13
5/3/2001 19:39	2.07	2.98	0.88	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	2.79	2.99	0.77	864161	5341	20943	52799	169471	1132345	22.7	34.0	8.9	21.8	191.8	0.12	0.11
5/3/2001 19:40	2.77	2.85	0.89	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	3.48	2.88	0.88	864161	5341	20943	52799	169471	1132345	28.3	29.5	7.8	18.8	191.8	0.15	0.10
5/3/2001 19:41	2.97	1.89	0.41	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	2.78	1.88	0.50	864161	5341	20943	52799	169471	1132345	22.7	12.2	5.7	9.8	191.8	0.12	0.05
5/3/2001 19:42	1.82	2.39	0.49	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	2.25	2.38	0.48	864161	5341	20943	52799	169471	1132345	18.3	27.2	5.6	16.4	191.8	0.10	0.09
5/3/2001 19:43	1.44	3.40	0.39	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	2.17	3.41	0.47	864161	5341	20943	52799	169471	1132345	17.6	38.5	5.5	22.3	191.8	0.09	0.12
5/3/2001 19:44	1.19	3.67	0.55	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.93	3.68	0.45	864161	5341	20943	52799	169471	1132345	15.6	42.7	7.5	25.6	191.8	0.08	0.13
5/3/2001 19:45	0.62	3.59	0.49	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.38	3.57	0.57	864161	5341	20943	52799	169471	1132345	11.0	41.3	8.8	24.0	191.8	0.06	0.13
5/3/2001 19:46	0.52	3.56	0.44	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.28	3.56	0.53	864161	5341	20943	52799	169471	1132345	10.2	38.8	8.1	22.5	191.8	0.06	0.12
5/3/2001 19:47	0.62	3.58	0.42	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.38	3.40	0.51	864161	5341	20943	52799	169471	1132345	11.0	38.3	5.9	22.6	191.8	0.06	0.12
5/3/2001 19:48	0.84	3.79	0.44	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.66	3.81	0.53	864161	5341	20943	52799	169471	1132345	13.6	44.0	6.1	25.1	191.8	0.07	0.13
5/3/2001 19:49	0.97	4.38	0.46	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.79	4.38	0.53	864161	5341	20943	52799	169471	1132345	13.5	50.8	6.1	28.4	191.8	0.07	0.15
5/3/2001 19:50	0.77	2.98	0.35	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.50	2.99	0.64	864161	5341	20943	52799	169471	1132345	12.3	34.2	7.4	20.8	191.8	0.08	0.11
5/3/2001 19:51	3.38	2.88	0.49	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	4.11	2.89	0.48	864161	5341	20943	52799	169471	1132345	33.4	24.1	5.8	14.8	191.8	0.17	0.08
5/3/2001 19:52	4.72	1.72	0.33	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	5.42	1.71	0.41	864161	5341	20943	52799	169471	1132345	44.8	19.8	4.8	12.3	191.8	0.23	0.06
5/3/2001 19:53	3.52	1.21	0.35	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	4.23	1.19	0.47	864161	5341	20943	52799	169471	1132345	34.4	13.8	5.4	9.6	191.8	0.18	0.05
5/3/2001 19:54	2.43	2.40	0.25	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	3.14	2.42	0.34	864161	5341	20943	52799	169471	1132345	25.5	28.0	3.9	18.0	191.8	0.13	0.09
5/3/2001 19:55	1.99	4.79	0.47	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	2.52	4.73	0.56	864161	5341	20943	52799	169471	1132345	19.3	54.7	4.4	30.0	191.8	0.10	0.16
5/3/2001 19:56	1.69	5.39	1.02	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.75	5.33	1.11	864161	5341	20943	52799	169471	1132345	14.3	60.5	12.8	38.7	191.8	0.07	0.19
5/3/2001 19:57	0.84	5.86	1.39	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.38	5.88	1.38	864161	5341	20943	52799	169471	1132345	11.2	66.1	16.0	42.5	191.8	0.06	0.22
5/3/2001 19:58	0.46	7.35	1.35	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.18	7.46	1.35	864161	5341	20943	52799	169471	1132345	9.6	86.1	15.6	50.9	191.8	0.05	0.27
5/3/2001 19:59	0.39	7.46	1.39	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	0.93	7.52	1.18	864161	5341	20943	52799	169471	1132345	7.6	86.8	13.6	50.3	191.8	0.04	0.26
5/3/2001 19:00	0.15	6.12	0.88	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	0.88	6.16	1.04	864161	5341	20943	52799	169471	1132345	7.2	71.4	12.0	41.7	191.8	0.04	0.22
5/3/2001 19:01	0.27	4.22	0.21	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.11	4.25	0.93	864161	5341	20943	52799	169471	1132345	8.8	48.1	10.4	29.8	191.8	0.05	0.16
5/3/2001 19:02	0.49	3.48	0.79	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.25	3.47	0.87	864161	5341	20943	52799	169471	1132345	10.6	40.1	10.1	25.1	191.8	0.06	0.13
5/3/2001 19:03	0.49	3.79	0.87	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.23	3.78	0.98	864161	5341	20943	52799	169471	1132345	10.6	43.9	11.0	27.3	191.8	0.05	0.14
5/3/2001 19:04	0.23	4.48	0.77	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	0.98	4.43	0.85	864161	5341	20943	52799	169471	1132345	8.0	51.2	9.9	30.5	191.8	0.04	0.16
5/3/2001 19:05	0.07	4.89	0.81	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	0.81	4.85	0.90	864161	5341	20943	52799	169471	1132345	6.6	57.0	10.4	33.7	191.8	0.03	0.18
5/3/2001 19:06	0.02	5.48	0.83	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	0.78	5.52	0.92	864161	5341	20943	52799	169471	1132345	6.2	63.8	10.7	37.2	191.8	0.03	0.19
5/3/2001 19:07	0.20	5.53	0.78	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	0.93	5.56	0.85	864161	5341	20943	52799	169471	1132345	7.8	67.8	9.8	38.8	191.8	0.04	0.20
5/3/2001 19:08	0.48	4.37	0.79	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.13	4.40	0.82	864161	5341	20943	52799	169471	1132345	9.2	50.8	9.5	30.2	191.8	0.05	0.16
5/3/2001 19:09	0.42	3.85	0.65	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.16	3.80	0.73	864161	5341	20943	52799	169471	1132345	8.4	45.1	8.3	26.6	191.8	0.05	0.14
5/3/2001 19:10	0.22	4.23	0.86	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	0.96	4.25	0.84	864161	5341	20943	52799	169471	1132345	7.8	46.2	7.4	28.3	191.8	0.04	0.15
5/3/2001 19:11	0.20	3.77	0.80	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	0.93	3.78	0.80	864161	5341	20943	52799	169471	1132345	7.8	32.1	7.0	19.8	191.8	0.04	0.10
5/3/2001 19:12	0.30	2.92	0.45	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.03	2.92	0.53	864161	5341	20943	52799	169471	1132345	8.4	29.2	4.1	17.7	191.8	0.04	0.09
5/3/2001 19:13	0.45	2.89	0.42	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.16	2.90	0.51	864161	5341	20943	52799	169471	1132345	8.8	28.8	5.8	17.4	191.8	0.05	0.09
5/3/2001 19:14	0.42	2.41	0.41	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.36	2.41	0.50	864161	5341	20943	52799	169471	1132345	11.0	27.8	5.7	16.8	191.8	0.06	0.09
5/3/2001 19:15	0.02	3.01	0.35	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.53	3.02	0.44	864161	5341	20943	52799	169471	1132345	12.6	34.8	5.1	20.0	191.8	0.07	0.10
5/3/2001 19:16	0.69	2.29	0.39	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.63	2.29	0.38	864161	5341	20943	52799	169471	1132345	13.2	25.4	4.3	14.9	191.8	0.07	0.08
5/3/2001 19:17	0.64	1.16	0.25	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.38	1.14	0.33	864161	5341	20943	52799	169471	1132345	12.6	13.2	3.8	8.5	191.8	0.07	0.04
5/3/2001 19:18	0.89	1.35	0.27	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.63	1.33	0.36	864161	5341	20943	52799	169471	1132345	13.3	15.4	4.2	9.6	191.8	0.07	0.05
5/3/2001 19:19	0.94	3.54	0.32	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.66	3.55	0.40	864161	5341	20943	52799	169471	1132345	13.6	41.1	4.7	22.6	191.8	0.07	0.12
5/3/2001 19:20	1.14	3.91	0.31	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.86	3.93	0.40	864161	5341	20943	52799	169471	1132345	13.2	45.5	4.6	25.0	191.8	0.06	0.13
5/3/2001 19:21	0.84	3.88	0.37	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.36	3.88	0.46	864161	5341	20943	52799	169471	1132345	12.6	44.9	5.3	25.1	191.8	0.07	0.13
5/3/2001 19:22	0.74	3.74	0.39	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.48	3.79	0.48	864161	5341	20943	52799	169471	1132345	12.6	43.4	5.4	24.4	191.8	0.08	0.13
5/3/2001 19:23	0.77	3.43	0.39	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.50	3.45	0.48	864161	5341	20943	52799	169471	1132345	12.3	39.8	5.4	22.6	191.8	0.08	0.13
5/3/2001 19:24	0.62	3.67	0.35	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.38	3.68	0.47	864161	5341	20943	52799	169471	1132345	11.0	35.6	5.4	20.5	191.8	0.08	0.11
5/3/2001 19:25	0.64	2.79	0.34	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.36	2.79	0.42	864161	5341	20943	52799	169471	1132345	11.2	32.2	4.8	18.5	191.8	0.08	0.10
5/3/2001 19:26	0.64	3.38	0.29	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.36	3.40	0.36	864161	5341	20943	52799	169471	1132345	11.2	38.3	4.5	21.8	191.8	0.08	0.11
5/3/2001 19:27	0.64	4.10	0.35	NOX ONLINE 7	SO2 online 4, 16	RUN 5	-0.75	53.82	0.035	5.89	-0.09	5.835	1.36	4.13	0.41	864161	5341	20943	52799	169471	1132345	11.2	47.7	4.8	26.2	191.8	0.08	0.14

TIME	OBSERVED CONCENTRATION PPM			COMMENTS			CALIBRATION CORRECTIONS						CORRECTED PPM VALUES			FLOW MEASURMENTS SCFM						MASS EMISSIONS				EMISSION FACTOR		
							NOX ?		SO2 IN		SO2 OUT																	
	NOX COMP ?	SO2 IN	SO2 OUT	NOX	SO2	RUN NUMBER	0.0	54.3	0.0	0.0	0.0	0.0	NOX - ?	SO2 IN	SO2 OUT	COLD-1	COLD-2	LAP	FURNACE A	FURNACE C	TOTAL	NOX LB/HR	SO2 IN LB/HR	SO2 OUT LB/HR	AVERAGE SO2 LB/HR	PRODUCTION TONS/HR	NOX LB/TON	SO2 LB/TON
5/3/2001 19:28	0.67	0.12	0.00	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	1.41	0.18	0.65	884181	5341	20563	52788	169471	1132345	11.4	71.4	7.3	39.4	191.8	0.06	0.21
5/3/2001 19:29	0.62	0.05	0.00	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	1.36	0.13	1.05	884181	5341	20563	52788	169471	1132345	11.0	105.8	12.1	58.9	191.8	0.06	0.31
5/3/2001 19:30	1.84	10.84	0.00	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	1.78	10.98	1.07	884181	5341	20563	52788	169471	1132345	14.4	126.8	12.3	69.5	191.8	0.08	0.36
5/3/2001 19:31	1.52	10.39	0.00	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	2.25	10.32	0.99	884181	5341	20563	52788	169471	1132345	18.3	119.3	11.5	65.4	191.8	0.10	0.34
5/3/2001 19:32	2.42	6.91	1.56	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	3.14	8.09	1.49	884181	5341	20563	52788	169471	1132345	25.5	104.0	19.1	61.6	191.8	0.13	0.32
5/3/2001 19:33	1.92	6.69	1.39	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	2.55	6.88	1.67	884181	5341	20563	52788	169471	1132345	19.1	102.8	19.3	61.0	191.8	0.10	0.32
5/3/2001 19:34	1.09	5.82	1.09	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	1.53	5.07	1.79	884181	5341	20563	52788	169471	1132345	14.6	89.0	20.6	44.8	191.8	0.08	0.23
5/3/2001 19:35	1.74	4.38	1.85	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	2.47	4.36	1.84	884181	5341	20563	52788	169471	1132345	20.1	50.6	22.5	36.5	191.8	0.10	0.19
5/3/2001 19:36	1.37	4.73	1.58	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	2.00	4.76	1.44	884181	5341	20563	52788	169471	1132345	18.7	56.1	16.6	30.8	191.8	0.10	0.16
5/3/2001 19:37	0.97	6.60	0.00	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	1.76	6.67	1.02	884181	5341	20563	52788	169471	1132345	13.5	70.2	11.2	41.6	191.8	0.07	0.21
5/3/2001 19:38	0.97	5.47	1.17	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	1.31	5.51	1.28	884181	5341	20563	52788	169471	1132345	10.6	63.9	14.5	39.1	191.8	0.06	0.20
5/3/2001 19:39	1.69	4.72	2.30	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	2.43	4.75	2.45	884181	5341	20563	52788	169471	1132345	19.7	58.0	29.3	41.6	191.8	0.10	0.22
5/3/2001 19:40	0.77	4.46	2.05	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	1.50	4.81	3.79	884181	5341	20563	52788	169471	1132345	12.2	52.2	43.4	47.8	191.8	0.06	0.25
5/3/2001 19:41	0.57	4.26	2.49	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	1.31	4.59	2.49	884181	5341	20563	52788	169471	1132345	10.6	49.5	25.8	36.3	191.8	0.05	0.29
5/3/2001 19:42	0.62	3.75	1.43	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	1.36	3.77	1.52	884181	5341	20563	52788	169471	1132345	11.0	43.8	17.6	30.8	191.8	0.06	0.16
5/3/2001 19:43	0.77	3.67	1.35	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	1.50	3.68	1.37	884181	5341	20563	52788	169471	1132345	12.2	42.7	15.6	29.2	191.8	0.06	0.15
5/3/2001 19:44	0.54	3.48	1.09	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	1.28	3.50	1.14	884181	5341	20563	52788	169471	1132345	10.4	40.5	13.2	26.9	191.8	0.05	0.14
5/3/2001 19:45	0.39	2.93	1.10	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	1.03	2.94	1.10	884181	5341	20563	52788	169471	1132345	8.4	33.9	13.7	23.6	191.8	0.04	0.12
5/3/2001 19:46	0.32	2.69	1.04	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.79	53.82	0.035	5.00	-0.00	5.835	1.06	3.00	1.03	884181	5341	20563	52788	169471	1132345	8.8	34.7	22.3	28.5	191.8	0.04	0.15
5/3/2001 19:47	0.62	3.79	3.13	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	1.36	3.72	3.24	884181	5341	20563	52788	169471	1132345	11.0	43.0	37.5	40.2	191.8	0.06	0.21
5/3/2001 19:48	0.45	4.35	2.39	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	1.18	4.29	2.40	884181	5341	20563	52788	169471	1132345	9.6	48.6	27.7	38.2	191.8	0.05	0.20
5/3/2001 19:49	0.17	4.49	1.19	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.91	4.43	1.19	884181	5341	20563	52788	169471	1132345	7.4	51.2	13.8	32.5	191.8	0.04	0.17
5/3/2001 19:50	0.40	2.91	0.89	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	1.13	2.92	0.89	884181	5341	20563	52788	169471	1132345	9.2	33.7	11.5	22.6	191.8	0.05	0.12
5/3/2001 19:51	0.35	3.39	0.84	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	1.08	3.40	1.03	884181	5341	20563	52788	169471	1132345	9.0	39.4	11.9	25.8	191.8	0.05	0.13
5/3/2001 19:52	0.18	3.31	0.84	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.83	3.32	1.03	884181	5341	20563	52788	169471	1132345	6.8	38.4	11.9	25.1	191.8	0.04	0.13
5/3/2001 19:53	-0.16	2.68	1.07	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.64	2.65	1.16	884181	5341	20563	52788	169471	1132345	5.2	30.8	13.4	22.0	191.8	0.03	0.11
5/3/2001 19:54	-0.16	1.20	0.85	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.58	1.19	1.04	884181	5341	20563	52788	169471	1132345	4.6	13.7	12.0	12.8	191.8	0.02	0.07
5/3/2001 19:55	-0.28	2.65	0.73	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.48	2.62	0.91	884181	5341	20563	52788	169471	1132345	3.8	25.3	9.9	16.4	191.8	0.02	0.09
5/3/2001 19:56	-0.33	2.51	0.67	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.41	2.51	0.75	884181	5341	20563	52788	169471	1132345	3.4	23.0	8.7	15.9	191.8	0.02	0.10
5/3/2001 19:57	-0.40	2.53	0.67	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.34	2.53	0.66	884181	5341	20563	52788	169471	1132345	2.7	23.2	11.1	20.1	191.8	0.01	0.11
5/3/2001 19:58	-0.45	2.65	1.00	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.29	2.66	1.11	884181	5341	20563	52788	169471	1132345	2.3	24.2	12.6	22.5	191.8	0.01	0.12
5/3/2001 19:59	-0.46	2.82	0.79	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.34	2.83	0.86	884181	5341	20563	52788	169471	1132345	2.7	32.7	10.2	21.4	191.8	0.01	0.11
5/3/2001 20:00	-0.46	2.39	0.67	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.34	2.39	0.85	884181	5341	20563	52788	169471	1132345	2.7	27.6	11.0	19.3	191.8	0.01	0.10
5/3/2001 20:01	-0.33	2.19	1.08	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.41	2.19	1.77	884181	5341	20563	52788	169471	1132345	3.4	25.3	20.5	22.9	191.8	0.02	0.12
5/3/2001 20:02	-0.30	2.40	2.52	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.44	2.40	2.81	884181	5341	20563	52788	169471	1132345	3.8	27.8	30.2	29.0	191.8	0.02	0.15
5/3/2001 20:03	-0.33	3.13	3.65	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.41	3.14	3.75	884181	5341	20563	52788	169471	1132345	3.4	36.4	43.4	39.9	191.8	0.02	0.21
5/3/2001 20:04	-0.35	3.41	3.91	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.39	3.42	4.00	884181	5341	20563	52788	169471	1132345	3.1	39.9	46.3	43.1	191.8	0.02	0.22
5/3/2001 20:05	-0.39	3.11	3.55	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.44	3.12	3.64	884181	5341	20563	52788	169471	1132345	3.6	36.1	39.8	37.9	191.8	0.02	0.20
5/3/2001 20:06	-0.33	3.28	3.84	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.41	3.34	3.93	884181	5341	20563	52788	169471	1132345	3.4	38.7	38.5	38.6	191.8	0.02	0.20
5/3/2001 20:07	-0.33	3.74	1.57	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.41	3.78	1.66	884181	5341	20563	52788	169471	1132345	3.4	43.4	19.2	31.3	191.8	0.02	0.16
5/3/2001 20:08	-0.25	4.29	2.27	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.48	4.22	2.37	884181	5341	20563	52788	169471	1132345	4.0	48.8	27.4	38.1	191.8	0.03	0.20
5/3/2001 20:09	-0.05	4.16	3.86	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.69	4.19	4.07	884181	5341	20563	52788	169471	1132345	5.8	48.4	47.1	47.7	191.8	0.03	0.25
5/3/2001 20:10	0.20	3.91	4.08	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.93	3.93	4.16	884181	5341	20563	52788	169471	1132345	7.8	45.5	48.1	46.8	191.8	0.04	0.24
5/3/2001 20:11	0.22	3.88	4.07	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.96	3.90	4.17	884181	5341	20563	52788	169471	1132345	7.9	45.1	48.2	46.6	191.8	0.04	0.24
5/3/2001 20:12	0.15	3.88	4.07	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.86	3.82	4.17	884181	5341	20563	52788	169471	1132345	7.2	44.2	48.2	46.2	191.8	0.04	0.24
5/3/2001 20:13	0.10	4.10	3.98	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.83	4.13	4.09	884181	5341	20563	52788	169471	1132345	6.8	47.7	46.6	47.1	191.8	0.04	0.25
5/3/2001 20:14	0.07	4.30	3.88	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.81	4.31	3.94	884181	5341	20563	52788	169471	1132345	6.6	49.8	34.0	41.9	191.8	0.03	0.22
5/3/2001 20:15	0.00	4.30	3.49	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.74	4.33	3.59	884181	5341	20563	52788	169471	1132345	6.0	49.8	41.5	45.7	191.8	0.03	0.24
5/3/2001 20:16	-0.06	3.97	4.12	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.66	3.98	4.22	884181	5341	20563	52788	169471	1132345	5.4	46.2	48.8	47.5	191.8	0.03	0.25
5/3/2001 20:17	-0.16	3.99	3.46	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.64	4.01	3.53	884181	5341	20563	52788	169471	1132345	5.2	46.4	41.0	43.7	191.8	0.03	0.23
5/3/2001 20:18	-0.13	4.29	3.89	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.61	4.33	3.79	884181	5341	20563	52788	169471	1132345	5.0	48.9	43.8	46.4	191.8	0.03	0.24
5/3/2001 20:19	-0.13	4.24	4.18	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.61	4.27	4.27	884181	5341	20563	52788	169471	1132345	5.0	49.3	49.4	49.4	191.8	0.03	0.26
5/3/2001 20:20	-0.13	3.81	2.88	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.61	3.83	2.95	884181	5341	20563	52788	169471	1132345	5.0	44.3	34.2	39.2	191.8	0.03	0.20
5/3/2001 20:21	-0.18	3.45	1.59	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.56	3.44	1.58	884181	5341	20563	52788	169471	1132345	4.6	39.9	18.4	29.1	191.8	0.02	0.15
5/3/2001 20:22	-0.13	3.16	1.21	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.59	3.17	1.40	884181	5341	20563	52788	169471	1132345	4.8	36.7	16.1	26.4	191.8	0.02	0.14
5/3/2001 20:23	-0.18	2.84	0.88	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.56	2.84	1.06	884181	5341	20563	52788	169471	1132345	4.6	30.5	12.4	21.5	191.8	0.02	0.11
5/3/2001 20:24	-0.16	2.58	0.74	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.56	2.58	0.83	884181	5341	20563	52788	169471	1132345	4.6	29.8	9.6	19.8	191.8	0.02	0.10
5/3/2001 20:25	-0.03	2.57	0.46	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.71	2.57	0.54	884181	5341	20563	52788	169471	1132345	5.8	29.7	6.2	18.0	191.8	0.03	0.09
5/3/2001 20:26	0.10	2.59	0.39	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.83	2.60	0.46	884181	5341	20563	52788	169471	1132345	6.8	29.9	5.4	17.6	191.8	0.04	0.09
5/3/2001 20:27	0.15	3.17	1.17	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.86	3.18	1.26	884181	5341	20563	52788	169471	1132345	7.2	36.8	14.8	25.7	191.8	0.04	0.13
5/3/2001 20:28	0.30	3.57	2.39	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	0.93	3.58	2.42	884181	5341	20563	52788	169471	1132345	7.6	45.0	29.9	38.3	191.8	0.04	0.19
5/3/2001 20:29	0.37	3.88	4.84	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	1.11	3.91	5.04	884181	5341	20563	52788	169471	1132345	9.0	50.3	58.3	63.3	191.8	0.05	0.33
5/3/2001 20:30	0.48	4.03	6.14	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	1.23	4.07	6.25	884181	5341	20563	52788	169471	1132345	10.0	53.9	72.2	63.1	191.8	0.05	0.33
5/3/2001 20:31	2.67	3.87	5.67	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	3.39	3.89	6.96	884181	5341	20563	52788	169471	1132345	27.5	45.0	103.8	74.4	191.8	0.14	0.38
5/3/2001 20:32	6.84	7.25	8.89	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	7.53	7.32	9.02	884181	5341	20563	52788	169471	1132345	61.1	84.7	104.3	94.5	191.8	0.32	0.49
5/3/2001 20:33	4.94	7.02	8.57	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	5.45	7.08	8.46	884181	5341	20563	52788	169471	1132345	45.8	81.3	98.1	89.7	191.8	0.24	0.46
5/3/2001 20:34	2.84	7.09	7.36	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	3.37	7.09	7.46	884181	5341	20563	52788	169471	1132345	27.3	82.0	88.3	84.1	191.8	0.14	0.44
5/3/2001 20:35	1.72	5.88	6.10	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	2.45	5.91	6.21	884181	5341	20563	52788	169471	1132345	18.9	69.5	71.8	70.6	191.8	0.10	0.37
5/3/2001 20:36	1.84	4.97	4.85	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	2.37	5.01	5.08	884181	5341	20563	52788	169471	1132345	19.3	57.9	58.7	58.3	191.8	0.10	0.30
5/3/2001 20:37	1.57	4.49	4.49	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	2.20	4.43	4.56	884181	5341	20563	52788	169471	1132345	18.7	51.4	52.7	52.0	191.8	0.10	0.27
5/3/2001 20:38	1.67	4.69	4.71	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	2.40	4.62	4.81	884181	5341	20563	52788	169471	1132345	16.5	53.4	55.6	54.5	191.8	0.10	0.28
5/3/2001 20:39	1.74	5.05	5.57	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	2.47	5.13	5.47	884181	5341	20563	52788	169471	1132345	20.1	58.2	63.3	61.2	191.8	0.10	0.32
5/3/2001 20:40	2.13	5.38	5.81	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	2.84	5.39	5.91	884181	5341	20563	52788	169471	1132345	23.1	62.3	68.4	65.3	191.8	0.12	0.34
5/3/2001 20:41	2.49	5.65	5.79	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	3.22	5.70	5.90	884181	5341	20563	52788	169471	1132345	26.1	65.9	66.2	67.0	191.8	0.14	0.35
5/3/2001 20:42	2.42	5.61	5.64	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	3.14	5.65	5.74	884181	5341	20563	52788	169471	1132345	25.5	65.3	63.2	64.3	191.8	0.13	0.35
5/3/2001 20:43	2.04	5.53	1.36	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	2.77	5.57	1.44	884181	5341	20563	52788	169471	1132345	22.3	64.3	16.7	40.6	191.8	0.12	0.21
5/3/2001 20:44	1.67	5.38	0.89	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	2.40	5.54	0.75	884181	5341	20563	52788	169471	1132345	19.3	64.0	8.7	36.4	191.8	0.10	0.19
5/3/2001 20:45	1.19	5.24	2.65	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	1.93	5.28	2.75	884181	5341	20563	52788	169471	1132345	15.6	61.1	31.8	46.5	191.8	0.08	0.24
5/3/2001 20:46	1.22	5.29	4.19	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	1.95	5.33	4.29	884181	5341	20563	52788	169471	1132345	15.8	61.8	48.6	53.8	191.8	0.08	0.28
5/3/2001 20:47	1.67	5.12	3.88	NOX ONLINE ?	SO2 online 4, 10	RUN 3	-0.75	53.82	0.035	5.00	-0.00	5.835	1.80	5.16	3.98	884181	5341	20563	52788	169471	1132345	14.6	58.8	45.7	52.7	191.8	0.08	0.28

TIME	OBSERVED CONCENTRATION PPM			COMMENTS			CALIBRATION CORRECTIONS						CORRECTED PPM VALUES			FLOW MEASURMENTS SCFM						MASS EMISSIONS				EMISSION FACTOR		
							NOX 7		SO2 IN		SO2 OUT																	
	NOX CONC 7	SO2 IN	SO2 OUT	NOX	SO2	RUN NUMBER	0.0	SL2	0.0	3.0	0.0	3.0	NOX - 7	SO2 IN	SO2 OUT	COLD-1	COLD-2	LMF	FURNACE A	FURNACE C	TOTAL	NOX LB/HR	SO2 IN LB/HR	SO2 OUT LB/HR	AVERAGE SO2 LB/HR	PRODUCTION TONS/HR	NOX LB/TON	SO2 LB/TON
5/3/2001 20:48	1.17	4.56	4.45	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	1.90	4.81	4.53	864181	5341	20563	52788	169471	1132345	15.4	53.3	52.4	52.9	191.6	0.08	0.28
5/3/2001 20:49	1.14	4.69	4.58	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	1.86	4.72	5.05	864181	5341	20563	52788	169471	1132345	15.2	54.6	58.4	56.5	191.6	0.08	0.29
5/3/2001 20:50	1.39	4.69	5.12	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	2.12	4.83	5.22	864181	5341	20563	52788	169471	1132345	17.2	55.9	65.4	58.2	191.6	0.09	0.30
5/3/2001 20:51	1.52	4.67	5.52	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	2.25	5.00	5.63	864181	5341	20563	52788	169471	1132345	18.3	57.8	65.1	61.4	191.6	0.10	0.32
5/3/2001 20:52	1.47	5.49	6.08	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	2.20	5.44	6.12	864181	5341	20563	52788	169471	1132345	17.8	62.9	70.8	66.8	191.6	0.09	0.35
5/3/2001 20:53	1.04	5.88	6.57	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	1.79	5.86	6.66	864181	5341	20563	52788	169471	1132345	14.4	66.8	77.3	72.0	191.6	0.08	0.38
5/3/2001 20:54	0.87	6.41	6.95	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	1.61	6.47	7.07	864181	5341	20563	52788	169471	1132345	13.4	74.8	81.7	78.3	191.6	0.08	0.41
5/3/2001 20:55	0.87	6.38	6.85	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	1.61	6.44	6.74	864181	5341	20563	52788	169471	1132345	13.4	74.5	77.9	76.2	191.6	0.08	0.40
5/3/2001 20:56	0.87	6.51	6.82	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	1.61	6.57	6.73	864181	5341	20563	52788	169471	1132345	13.4	76.0	76.8	75.4	191.6	0.08	0.38
5/3/2001 20:57	0.62	6.38	4.14	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	1.36	6.42	4.94	864181	5341	20563	52788	169471	1132345	11.0	74.2	49.0	61.6	191.6	0.06	0.32
5/3/2001 20:58	0.49	5.91	2.91	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	1.23	5.96	3.01	864181	5341	20563	52788	169471	1132345	10.0	68.9	34.8	51.8	191.6	0.05	0.27
5/3/2001 20:59	1.32	5.07	1.71	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	2.05	5.71	1.60	864181	5341	20563	52788	169471	1132345	16.8	66.1	20.8	43.4	191.6	0.09	0.23
5/3/2001 21:00	1.64	4.67	3.41	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	2.57	4.60	3.51	864181	5341	20563	52788	169471	1132345	20.8	56.7	40.6	48.6	191.6	0.11	0.25
5/3/2001 21:01	1.62	4.39	4.38	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	2.65	4.42	4.48	864181	5341	20563	52788	169471	1132345	21.5	51.1	51.8	51.5	191.6	0.11	0.27
5/3/2001 21:02	2.57	4.28	4.48	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	3.29	4.29	4.58	864181	5341	20563	52788	169471	1132345	26.7	49.8	52.7	51.1	191.6	0.14	0.27
5/3/2001 21:03	2.52	4.41	4.88	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	3.24	4.44	4.98	864181	5341	20563	52788	169471	1132345	26.3	51.4	57.7	54.5	191.6	0.14	0.28
5/3/2001 21:04	1.77	5.49	6.33	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	2.00	5.54	6.38	864181	5341	20563	52788	169471	1132345	18.2	64.0	73.5	68.7	191.6	0.08	0.36
5/3/2001 21:05	0.97	5.59	6.23	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	1.21	5.63	6.40	864181	5341	20563	52788	169471	1132345	9.8	65.1	73.8	69.5	191.6	0.05	0.36
5/3/2001 21:06	0.66	5.19	5.84	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	0.74	5.14	5.95	864181	5341	20563	52788	169471	1132345	6.6	59.5	68.6	64.1	191.6	0.03	0.33
5/3/2001 21:07	-0.13	2.68	5.60	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	0.58	2.70	5.70	864181	5341	20563	52788	169471	1132345	4.8	31.2	65.9	48.6	191.6	0.02	0.25
5/3/2001 21:08	-0.06	3.71	5.89	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	0.66	3.75	5.97	864181	5341	20563	52788	169471	1132345	5.4	43.1	68.0	56.0	191.6	0.03	0.29
5/3/2001 21:09	0.00	5.78	6.49	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	0.74	5.74	6.60	864181	5341	20563	52788	169471	1132345	6.0	66.4	76.3	71.4	191.6	0.03	0.37
5/3/2001 21:10	0.00	5.85	6.33	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	0.74	5.84	6.43	864181	5341	20563	52788	169471	1132345	6.0	66.7	74.3	71.5	191.6	0.03	0.37
5/3/2001 21:11	-0.10	5.42	5.69	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	0.56	5.47	5.77	864181	5341	20563	52788	169471	1132345	4.6	63.2	66.7	64.9	191.6	0.02	0.34
5/3/2001 21:12	-0.19	4.19	5.55	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	0.64	4.21	5.36	864181	5341	20563	52788	169471	1132345	5.2	48.7	61.9	55.3	191.6	0.03	0.28
5/3/2001 21:13	0.02	3.51	3.99	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	0.76	3.53	4.00	864181	5341	20563	52788	169471	1132345	6.2	40.8	48.3	43.5	191.6	0.03	0.23
5/3/2001 21:14	0.07	3.44	3.70	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	0.81	3.46	3.86	864181	5341	20563	52788	169471	1132345	6.6	40.0	44.6	42.3	191.6	0.03	0.22
5/3/2001 21:15	0.47	4.38	5.03	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	1.21	4.42	5.14	864181	5341	20563	52788	169471	1132345	9.8	53.4	59.4	56.4	191.6	0.05	0.29
5/3/2001 21:16	0.64	5.16	5.90	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	1.38	5.22	5.99	864181	5341	20563	52788	169471	1132345	11.2	60.4	63.8	62.0	191.6	0.06	0.32
5/3/2001 21:17	0.35	4.82	5.09	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	1.06	4.85	5.18	864181	5341	20563	52788	169471	1132345	8.8	56.1	59.9	58.0	191.6	0.05	0.30
5/3/2001 21:18	0.02	4.27	2.78	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	0.76	4.90	2.79	864181	5341	20563	52788	169471	1132345	6.2	56.7	32.3	44.5	191.6	0.03	0.23
5/3/2001 21:19	0.48	3.05	1.25	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	0.78	3.10	1.34	864181	5341	20563	52788	169471	1132345	6.2	36.0	15.5	37.2	191.6	0.03	0.19
5/3/2001 21:20	0.16	4.75	0.58	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	0.63	4.78	0.68	864181	5341	20563	52788	169471	1132345	5.8	55.2	7.8	31.5	191.6	0.04	0.16
5/3/2001 21:21	0.15	4.16	0.27	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	0.66	4.18	0.95	864181	5341	20563	52788	169471	1132345	7.2	48.4	11.0	29.7	191.6	0.04	0.15
5/3/2001 21:22	0.17	2.98	2.92	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	0.81	4.00	3.01	864181	5341	20563	52788	169471	1132345	7.4	46.3	34.8	40.5	191.6	0.04	0.21
5/3/2001 21:23	0.17	4.08	3.01	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	0.81	4.08	3.01	864181	5341	20563	52788	169471	1132345	7.4	47.2	45.2	46.2	191.6	0.04	0.24
5/3/2001 21:24	0.10	3.99	3.05	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	0.63	3.97	3.03	864181	5341	20563	52788	169471	1132345	6.0	45.9	45.4	45.7	191.6	0.04	0.24
5/3/2001 21:25	0.12	3.48	2.72	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	0.66	3.50	2.82	864181	5341	20563	52788	169471	1132345	7.0	40.4	32.6	36.5	191.6	0.04	0.19
5/3/2001 21:26	0.25	3.28	1.02	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	0.88	3.30	1.11	864181	5341	20563	52788	169471	1132345	8.6	38.1	12.8	25.5	191.6	0.04	0.13
5/3/2001 21:27	0.40	3.39	0.46	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	1.13	3.30	0.54	864181	5341	20563	52788	169471	1132345	9.2	38.2	6.2	23.2	191.6	0.05	0.12
5/3/2001 21:28	0.36	4.13	1.26	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	1.08	4.15	1.35	864181	5341	20563	52788	169471	1132345	8.8	48.0	15.6	31.8	191.6	0.05	0.17
5/3/2001 21:29	0.13	3.67	2.89	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	0.88	5.72	2.99	864181	5341	20563	52788	169471	1132345	7.2	66.1	34.8	50.4	191.6	0.04	0.26
5/3/2001 21:30	0.12	6.84	4.08	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	0.86	6.90	4.18	864181	5341	20563	52788	169471	1132345	7.0	79.8	44.1	64.0	191.6	0.04	0.33
5/3/2001 21:31	0.02	5.82	5.18	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	1.38	5.87	5.28	864181	5341	20563	52788	169471	1132345	11.0	67.9	61.1	64.5	191.6	0.06	0.34
5/3/2001 21:32	2.34	6.69	6.77	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	3.07	6.14	6.87	864181	5341	20563	52788	169471	1132345	24.8	71.0	79.5	75.2	191.6	0.13	0.38
5/3/2001 21:33	2.14	6.84	6.82	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	2.87	5.88	6.93	864181	5341	20563	52788	169471	1132345	23.3	68.1	80.1	74.1	191.6	0.12	0.38
5/3/2001 21:34	2.87	6.39	7.37	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	3.59	6.33	7.46	864181	5341	20563	52788	169471	1132345	29.1	73.2	86.3	79.8	191.6	0.15	0.42
5/3/2001 21:35	2.62	6.33	7.77	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	3.34	6.39	7.86	864181	5341	20563	52788	169471	1132345	27.1	73.9	91.1	82.5	191.6	0.14	0.43
5/3/2001 21:36	3.12	6.69	8.60	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	3.82	7.08	8.71	864181	5341	20563	52788	169471	1132345	47.2	81.5	100.7	91.1	191.6	0.25	0.48
5/3/2001 21:37	3.76	6.68	7.42	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	0.44	6.14	7.53	864181	5341	20563	52788	169471	1132345	53.3	71.0	87.0	79.0	191.6	0.27	0.41
5/3/2001 21:38	4.52	5.99	7.00	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	5.25	5.83	7.19	864181	5341	20563	52788	169471	1132345	42.4	65.1	82.1	73.6	191.6	0.22	0.38
5/3/2001 21:39	6.61	6.69	7.57	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	7.31	6.08	7.66	864181	5341	20563	52788	169471	1132345	58.5	70.3	86.8	78.6	191.6	0.31	0.41
5/3/2001 21:40	4.82	5.87	6.82	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	5.52	5.82	6.83	864181	5341	20563	52788	169471	1132345	44.8	65.0	80.1	72.6	191.6	0.23	0.38
5/3/2001 21:41	2.37	3.94	4.34	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	3.29	3.85	4.33	864181	5341	20563	52788	169471	1132345	29.7	42.2	50.1	46.2	191.6	0.14	0.24
5/3/2001 21:42	2.54	3.68	3.48	NOX ONLINE 7	SO2 online 4, 16	RUN 3	-0.75	53.82	0.035	5.80	-0.09	5.835	3.27	3.62	3.46	864181	5341	20563	52788	169471	1132345	29.5	38.6	40.4	37.7	191.6	0.14	0.20
						RUN 3 Average							1.64	4.55	2.72							15.3	52.8	31.5	42.0	191.6	0.07	0.22
5/3/2001 21:43	2.37	2.49	3.35	CALS	CALS	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	3.09	2.48	3.43													
5/3/2001 21:44	2.87	1.34	3.48	CALS	CALS	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	3.79	1.33	3.50													
5/3/2001 21:45	1.62	3.10	4.10	CALS	CALS	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	2.55	3.11	4.23													
5/3/2001 21:46	1.87	4.30	5.03	CALS	CALS	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	2.40	4.35	5.13													
5/3/2001 21:47	1.44	1.80	2.18	CALS	CALS	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	2.17	1.79	2.27													
5/3/2001 21:48	1.08	0.39	0.26	CALS	CALS	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	1.83	0.33	0.35													
5/3/2001 21:49	1.29	0.11	-0.01	CALS	cal zero	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	2.09	0.07	0.07													
5/3/2001 21:50	1.29	0.04	-0.06	CALS	cal zero	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	2.09	0.01	0.02													
5/3/2001 21:51	1.27	0.04	-0.09	CALS	cal zero	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	2.06	0.00	0.00													
5/3/2001 21:52	1.27	0.03	-0.09	CALS	cal zero	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	2.10	0.00	-0.01													
5/3/2001 21:53	1.44	0.02	-0.11	CALS	cal zero	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	2.17	-0.01	-0.03													
5/3/2001 21:54	1.32	0.00	-0.10	CALS	cal zero	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	2.05	-0.02	-0.02													
5/3/2001 21:55	1.29	0.01	-0.12	CALS	cal zero	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	2.03	-0.02	-0.03													
5/3/2001 21:56	1.29	0.01	-0.13	CALS	cal zero	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	2.03	-0.02	-0.04													
5/3/2001 21:57	1.24	0.01	-0.12	CALS	cal zero	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	1.98	-0.02	-0.04													
5/3/2001 21:58	1.19	0.01	-0.14	CALS	cal zero	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	1.93	-0.03	-0.06													
5/3/2001 21:59	1.77	0.00	-0.15	CALS	cal zero	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	2.50	-0.03	-0.07													
5/3/2001 22:00	2.48	-0.01	-0.17	CALS	cal zero	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	3.22	-0.05	-0.08													
5/3/2001 22:01	2.39	-0.02	-0.19	CALS	cal zero	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	3.12	-0.06	-0.11													
5/3/2001 22:02	1.88	-0.03	-0.18	CALS	cal zero	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	2.62	-0.06	-0.10													
5/3/2001 22:03	1.54	1.48	1.38	CALS	CALS	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	2.27	1.47	1.44													
5/3/2001 22:04	1.32	4.91	4.74	CALS	CALS	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	2.05	4.84	4.65													
5/3/2001 22:05	1.24	6.71	5.90	CALS	CALS	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	1.98	5.76	5.61													
5/3/2001 22:06	1.42	5.84	5.02	CALS	CALS	WAIT	-0.75	53.82	0.035	5.80	-0.09	5.835	2.15	5.89	5.73													

TIME	OBSERVED CONCENTRATION PPM			COMMENTS			CALIBRATION CORRECTIONS						CORRECTED PPM VALUES			FLOW MEASURMENTS SCFM						MASS EMISSIONS				EMISSION FACTOR		
							NOX F		SO2 IN		SO2 OUT																	
	NOX COMP ?	SO2 IN	SO2 OUT	NOX	SO2	RUN NUMBER	0.0	54.3	0.0	3.0	0.0	3.0	NOX - 7	SO2 IN	SO2 OUT	COLD-1	COLD-2	LME	FURNACE A	FURNACE C	TOTAL	NOX LB/HR	SO2 IN LB/HR	SO2 OUT LB/HR	AVERAGE SO2 LB/HR	PRODUCTION TONS/HR	NOX LB/TON	SO2 LB/TON
5/3/2001 22:07	1.34	5.89	5.76	CALB	CALB	WAIT	-0.75	53.82	0.035	5.88	-0.00	5.835	2.08	5.94	5.81													
5/3/2001 22:08	1.24	5.91	5.75	CALB	CALB	WAIT	-0.75	53.82	0.036	5.88	-0.00	5.835	1.98	5.96	5.83													
5/3/2001 22:09	1.18	5.90	5.82	CALB	cal 5.94	WAIT	-0.75	53.82	0.035	5.88	-0.00	5.835	1.93	5.97	5.93													
5/3/2001 22:10	1.22	5.91	5.86	CALB	cal 5.94	WAIT	-0.75	53.82	0.035	5.88	-0.00	5.835	1.95	5.98	5.98													
5/3/2001 22:11	1.22	5.92	5.86	CALB	cal 5.94	WAIT	-0.75	53.82	0.036	5.88	-0.00	5.835	1.96	5.97	5.98													
5/3/2001 22:12	1.18	5.90	5.83	CALB	cal 5.94	WAIT	-0.75	53.82	0.036	5.88	-0.00	5.835	1.93	6.01	5.93													
5/3/2001 22:13	1.19	5.97	5.85	CALB	cal 5.94	WAIT	-0.75	53.82	0.036	5.88	-0.00	5.835	1.93	6.02	5.90													
5/3/2001 22:14	1.17	5.86	5.80	CALB	cal 5.94	WAIT	-0.75	53.82	0.036	5.88	-0.00	5.835	1.93	6.02	5.90													
5/3/2001 22:15	0.48	5.46	5.40	CALB	CALB	WAIT	-0.75	53.82	0.036	5.88	-0.00	5.835	0.29	5.82	5.57													
5/3/2001 22:16	36.54	5.39	4.18	CALB	CALB	WAIT	-0.75	53.82	0.036	5.88	-0.00	5.835	37.03	5.81	4.27													
5/3/2001 22:17	34.27	5.25	4.01	34.2 CAL	CALB	WAIT	-0.75	53.82	0.035	5.88	-0.00	5.835	34.75	5.68	4.71													
5/3/2001 22:18	34.32	5.53	4.88	34.2 CAL	CALB	WAIT	-0.75	53.82	0.035	5.88	-0.00	5.835	34.79	3.54	4.88													
5/3/2001 22:19	34.25	3.57	4.88	34.2 CAL	CALB	WAIT	-0.75	53.82	0.035	5.88	-0.00	5.835	34.83	3.58	4.90													
5/3/2001 22:20	37.31	3.68	4.88	CALB	CALB	WAIT	-0.75	53.82	0.035	5.88	-0.00	5.835	37.80	3.65	4.79													
5/3/2001 22:21	-0.48	1.97	4.36	CALB	CALB	WAIT	-0.75	53.82	0.035	5.88	-0.00	5.835	0.29	1.97	4.42													
5/3/2001 22:22	-0.79	2.63	3.85	0.0 CAL	CALB	WAIT	-0.79	53.82	0.035	5.88	-0.00	5.835	0.04	2.63	4.05													
5/3/2001 22:23	-0.73	3.11	3.67	0.0 CAL	CALB	WAIT	-0.79	53.82	0.035	5.88	-0.00	5.835	0.02	3.12	3.79													
5/3/2001 22:24	-0.75	3.31	3.80	0.0 CAL	CALB	WAIT	-0.75	53.82	0.035	5.88	-0.00	5.835	-0.01	3.32	4.00													
5/3/2001 22:25	-0.75	2.67	3.79	0.0 CAL	CALB	WAIT	-0.75	53.82	0.035	5.88	-0.00	5.835	-0.01	2.68	3.99													
5/3/2001 22:26	-0.73	2.66	3.67	0.0 CAL	CALB	WAIT	-0.75	53.82	0.035	5.88	-0.00	5.835	0.02	2.69	3.90													
5/3/2001 22:27	-0.73	2.80	3.80	0.0 CAL	CALB	WAIT	-0.73	53.82	0.035	5.88	-0.00	5.835	0.02	2.81	3.40													
5/3/2001 22:28	-0.75	4.48	3.88	0.0 CAL	CALB	WAIT	-0.75	53.82	0.035	5.88	-0.00	5.835	-0.01	4.43	4.05													
5/3/2001 22:29	-0.73	5.40	5.14	0.0 CAL	CALB	WAIT	-0.73	53.82	0.035	5.88	-0.00	5.835	-0.01	5.44	5.24													
5/3/2001 22:30	-0.75	6.46	4.75	0.0 CAL	CALB	WAIT	-0.75	53.82	0.035	5.88	-0.00	5.835	-0.01	6.84	4.82													
5/3/2001 22:31	-0.75	6.92	2.68	0.0 CAL	CALB	WAIT	-0.75	53.82	0.035	5.88	-0.00	5.835	-0.01	6.88	2.75													
5/3/2001 22:32	-0.75	7.11	1.56	0.0 CAL	CALB	WAIT	-0.75	53.82	0.035	5.88	-0.00	5.835	-0.01	7.17	1.58													
5/3/2001 22:33	-0.75	6.02	1.83	0.0 CAL	CALB	WAIT	-0.75	53.82	0.035	5.88	-0.00	5.835	-0.01	6.07	1.12													
5/3/2001 22:34	-0.75	5.21	1.82	0.0 CAL	CALB	WAIT	-0.75	53.82	0.036	5.88	-0.00	5.835	-0.01	5.25	1.81													
5/3/2001 22:35	-0.75	4.36	3.97	0.0 CAL	CALB	WAIT	-0.75	53.82	0.035	5.88	-0.00	5.835	-0.01	4.38	4.07													
5/3/2001 22:36	-0.73	1.16	1.16	0.0 CAL	CALB	WAIT	-0.75	53.82	0.035	5.88	-0.00	5.835	0.02	1.13	1.27													
5/3/2001 22:37	-0.79	0.23	0.19	0.0 CAL	CALB	WAIT	-0.75	53.82	0.000	5.88	-0.00	5.835	0.04	0.19	0.20													
5/3/2001 22:38	-0.70	0.00	-0.00	0.0 CAL	CALB	WAIT	-0.75	53.82	0.036	5.88	-0.00	5.835	0.04	0.02	0.02													
5/3/2001 22:39	-0.78	0.01	-0.10	0.0 CAL	CALB	WAIT	-0.75	53.82	0.036	5.88	-0.00	5.835	0.04	-0.05	-0.02													
5/3/2001 22:40	-0.75	0.00	-0.13	0.0 CAL	CALB	WAIT	-0.75	53.82	0.000	5.88	-0.00	5.835	-0.03	-0.05	-0.05													
5/3/2001 22:41	-0.80	0.00	-0.15	0.0 CAL	CALB	WAIT	-0.75	53.82	0.035	5.88	-0.00	5.835	-0.06	-0.04	-0.06													
5/3/2001 22:42	-0.78	-0.01	-0.16	0.0 CAL	CALB	WAIT	-0.75	53.82	0.035	5.88	-0.00	5.835	-0.03	-0.04	-0.07													
5/3/2001 22:43	-0.78	-0.01	-0.16	0.0 CAL	CALB	WAIT	-0.75	53.82	0.033	5.88	-0.00	5.835	-0.03	-0.04	-0.07													
5/3/2001 22:44	-0.78	-0.02	-0.17	0.0 CAL	CALB	WAIT	-0.75	53.82	0.033	5.88	-0.00	5.835	-0.03	-0.05	-0.08													
5/3/2001 22:45	-0.80	-0.02	-0.17	0.0 CAL	CALB	WAIT	-0.75	53.82	0.033	5.88	-0.00	5.835	-0.06	-0.06	-0.08													

GALLATIN STEEL SO_2 TEST
FLOW AVERAGES

Cold Duct 1		ACFM	SCFMD	SCFMW
	R1	952974.	834555.	846113.
	R2	962283.	834826.	851927.
	R3	932043.	831991.	848086.
Avg.		949100.	833791.	848709.

Cold Duct 2		ACFMD	SCFMD	SCFMW
	R1	93541.	77357.	78428.
	R2	76467.	69720.	71148.
	R3	83826.	77680.	79183.
Avg.		84611.	74919.	76253.

Hot Duct		ACFM	SCFMD	SCFMW
	R1	395103.	219690.	222732.
	R2	402313.	219601.	224099.
	R3	378720.	237330.	241921.
Avg.		392045.	225540.	229584.

Total	ACFM	SCFMD	SCFMW
Flow	1,425,756.	1,134,250.	1,154,546.

APPENDIX D

FLOW RATES
EPA METHODS 1-4

GALLATIN STEEL COMPANY - SUMMARY OF BAGHOUSE FLOW RATES

	COLD 1			COLD 2			LMF			FURNACE A			FURNACE C			TOTAL		
	ACFM	SCFMD	SCFMW	ACFM	SCFMD	SCFMW	ACFM	SCFMD	SCFMW	ACFM	SCFMD	SCFMW	ACFM	SCFMD	SCFMW	ACFM	SCFMD	SCFMW
RUN 1	969420	881409	900084	101937	93063	95035	23697	19491	19904	261695	132503	135310	95756	86409	88240	1452505	1212875	1238573
RUN 2	1034806	877068	898983	19761	17714	18157	16205	13215	13545	52458	46628	47793	290645	151482	155267	1413875	1106107	1133745
RUN 3	1010457	884181	905918	5843	5341	5472	25924	20563	21069	64024	52789	54087	323278	169471	173637	1429526	1132345	1160183
AVERAGE	1004894	880886	901662	42514	38706	39555	21942	17756	18173	126059	77307	79063	236560	135787	139048	1431969	1150442	1177500

NOTE - SCFMD TOTAL USED FOR NOX CONVERSION OF PPM TO POUNDS PER HOUR, SCFMW USED FOR SO2.

Ambient Air Services, Inc.
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Volumetric Air-Flow Rates

Plant	Gallatin Steel		
Location	Ghent, Kentucky		
Stack	Cold Duct No. 1		
Run Date	5-3-01		
Run Number	1	**Volume Metered**	64.155
Start Time	1137	**Meter Temp (Deg R)**	537.3
Finish Time	1142	**Orsat CO2 %**	0
Barometric Pressure	29.74	**Orsat O2 %**	20.9
Stack Diameter (in.)	192	**Orsat CO %**	0
Stack Area sq. ft.	201.062	**Orsat N %**	79.1
Number of Points	16	**Condensate Volume**	28.1
Avg of SQRT of V.H.	1.3743	**Delta H (inches H2O)**	1.741
Meter Correction (Y)	0.992	**Stack Pressure**	29.49
Pitot Correction Factor	0.84	**Stack Temp (Deg R)**	560.5

==========

Moisture in stack gas, volume fraction	**0.021**
Dry Stack Gas, volume fraction	**0.979**
Molecular Weight of Stack Gas (Dry Basis)	**28.84**
Molecular Weight of Stack Gas (Stack conditions)	**28.610**
Specific gravity of Stack Gas Relative to Air	**0.987**
Excess Air (%)	
Average Stack Velocity, FPM	**4821.5**
Actual Stack Gas Flow Rate, ACFM	**969420**
Actual Stack Gas Flow Rate, (Dry) ACFMD	**949306**
Stack Gas Flow Rate (Standard conditions), SCFMD	**881409**
Stack Gas Flow Rate (Standard conditions), SCFMW	**900084**

GALLATIN STEEL SO_2 TEST
FLOW AVERAGES

Cold Duct 1		ACFM	SCFMD	SCFMW
	R1	952974.	834555.	846113.
	R2	962283.	834826.	851927.
	R3	932043.	831991.	848086.
Avg.		949100.	833791.	848709.

Cold Duct 2		ACFMD	SCFMD	SCFMW
	R1	93541.	77357.	78428.
	R2	76467.	69720.	71148.
	R3	83826.	77680.	79183.
Avg.		84611.	74919.	76253.

Hot Duct		ACFM	SCFMD	SCFMW
	R1	395103.	219690.	222732.
	R2	402313.	219601.	224099.
	R3	378720.	237330.	241921.
Avg.		392045.	225540.	229584.

Total Flow	ACFM	SCFMD	SCFMW
	1,425,756.	1,134,250.	1,154,546.

APPENDIX D

FLOW RATES
EPA METHODS 1-4

GALLATIN STEEL COMPANY - SUMMARY OF BAGHOUSE FLOW RATES

	COLD 1			COLD 2			LMF			FURNACE A			FURNACE C			TOTAL		
	ACFM	SCFMD	SCFMW	ACFM	SCFMD	SCFMW	ACFM	SCFMD	SCFMW	ACFM	SCFMD	SCFMW	ACFM	SCFMD	SCFMW	ACFM	SCFMD	SCFMW
RUN 1	969420	881409	900084	101937	93063	95035	23697	19491	19904	261695	132503	135310	95756	86409	88240	1452505	1212875	1238573
RUN 2	1034806	877068	898983	19761	17714	18157	16205	13215	13545	52458	46628	47793	290645	151482	155267	1413875	1106107	1133745
RUN 3	1010457	884181	905918	5843	5341	5472	25924	20563	21069	64024	52789	54087	323278	169471	173637	1429526	1132345	1160183
AVERAGE	1004894	880886	901662	42514	38706	39555	21942	17756	18173	126059	77307	79063	236560	135787	139048	1431969	1150442	1177500

NOTE - SCFMD TOTAL USED FOR NOX CONVERSION OF PPM TO POUNDS PER HOUR, SCFMW USED FOR SO2.

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Volumetric Air-Flow Rates

Plant	Gallatin Steel		
Location	Ghent, Kentucky		
Stack	Cold Duct No. 1		
Run Date	5-3-01		
Run Number	1	**Volume Metered**	64.155
Start Time	1137	**Meter Temp (Deg R)**	537.3
Finish Time	1142	**Orsat CO2 %**	0
Barometric Pressure	29.74	**Orsat O2 %**	20.9
Stack Diameter (in.)	192	**Orsat CO %**	0
Stack Area sq. ft.	201.062	**Orsat N %**	79.1
Number of Points	16	**Condensate Volume**	28.1
Avg of SQRT of V.H.	1.3743	**Delta H (inches H2O)**	1.741
Meter Correction (Y)	0.992	**Stack Pressure**	29.49
Pitot Correction Factor	0.84	**Stack Temp (Deg R)**	560.5

==========

Moisture in stack gas, volume fraction	**0.021**
Dry Stack Gas, volume fraction	**0.979**
Molecular Weight of Stack Gas (Dry Basis)	**28.84**
Molecular Weight of Stack Gas (Stack conditions)	**28.610**
Specific gravity of Stack Gas Relative to Air	**0.987**
Excess Air (%)	
Average Stack Velocity, FPM	**4821.5**
Actual Stack Gas Flow Rate, ACFM	**969420**
Actual Stack Gas Flow Rate, (Dry) ACFMD	**949306**
Stack Gas Flow Rate (Standard conditions), SCFMD	**881409**
Stack Gas Flow Rate (Standard conditions), SCFMW	**900084**

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Volumetric Air-Flow Rates

Plant	Gallatin Steel		
Location	Ghent, Kentucky		
Stack	Cold Duct No. 2		
Run Date	5-3-01		
Run Number	1	**Volume Metered**	64.155
Start Time	1150	**Meter Temp (Deg R)**	537.3
Finish Time	1157	**Orsat CO2 %**	0
Barometric Pressure	29.74	**Orsat O2 %**	20.9
Stack Diameter (in.)	120	**Orsat CO %**	0
Stack Area sq. ft.	78.540	**Orsat N %**	79.1
Number of Points	16	**Condensate Volume**	28.1
Avg of SQRT of V.H.	0.3707	**Delta H (inches H2O)**	1.741
Meter Correction (Y)	0.992	**Stack Pressure**	29.59
Pitot Correction Factor	0.84	**Stack Temp (Deg R)**	560.1

==========

Moisture in stack gas, volume fraction	**0.021**
Dry Stack Gas, volume fraction	**0.979**
Molecular Weight of Stack Gas (Dry Basis)	**28.84**
Molecular Weight of Stack Gas (Stack conditions)	**28.610**
Specific gravity of Stack Gas Relative to Air	**0.987**
Excess Air (%)	
Average Stack Velocity, FPM	**1297.9**
Actual Stack Gas Flow Rate, ACFM	**101937**
Actual Stack Gas Flow Rate, (Dry) ACFMD	**99822**
Stack Gas Flow Rate (Standard conditions), SCFMD	**93063**
Stack Gas Flow Rate (Standard conditions), SCFMW	**95035**

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Volumetric Air-Flow Rates

Plant	Gallatin Steel		
Location	Ghent, Kentucky		
Stack	LMF		
Run Date	5-3-01		
Run Number	1	**Volume Metered**	64.155
Start Time	1045	**Meter Temp (Deg R)**	537.3
Finish Time	1053	**Orsat CO2 %**	0
Barometric Pressure	29.74	**Orsat O2 %**	20.9
Stack Diameter (in.)	60	**Orsat CO %**	0
Stack Area sq. ft.	19.635	**Orsat N %**	79.1
Number of Points	12	**Condensate Volume**	28.1
Avg of SQRT of V.H.	0.3272	**Delta H (Inches H2O)**	1.741
Meter Correction (Y)	0.992	**Stack Pressure**	29.43
Pitot Correction Factor	0.84	**Stack Temp (Deg R)**	618.3

==========

Moisture in stack gas, volume fraction	**0.021**
Dry Stack Gas, volume fraction	**0.979**
Molecular Weight of Stack Gas (Dry Basis)	**28.84**
Molecular Weight of Stack Gas (Stack conditions)	**28.610**
Specific gravity of Stack Gas Relative to Air	**0.987**
Excess Air (%)	
Average Stack Velocity, FPM	**1206.9**
Actual Stack Gas Flow Rate, ACFM	**23697**
Actual Stack Gas Flow Rate, (Dry) ACFMD	**23205**
Stack Gas Flow Rate (Standard conditions), SCFMD	**19491**
Stack Gas Flow Rate (Standard conditions), SCFMW	**19904**

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Volumetric Air-Flow Rates

Plant	Gallatin Steel		
Location	Ghent, Kentucky		
Stack	Furnace A		
Run Date	5-3-01		
Run Number	1	**Volume Metered**	64.155
Start Time	1009	**Meter Temp (Deg R)**	537.3
Finish Time	1017	**Orsat CO2 %**	0
Barometric Pressure	29.74	**Orsat O2 %**	20.9
Stack Diameter (in.)	108	**Orsat CO %**	0
Stack Area sq. ft.	63.617	**Orsat N %**	79.1
Number of Points	12	**Condensate Volume**	28.1
Avg of SQRT of V.H.	0.8750	**Delta H (inches H2O)**	1.741
Meter Correction (Y)	0.992	**Stack Pressure**	29.42
Pitot Correction Factor	0.84	**Stack Temp (Deg R)**	1004.1

==========

Moisture in stack gas, volume fraction	**0.021**
Dry Stack Gas, volume fraction	**0.979**
Molecular Weight of Stack Gas (Dry Basis)	**28.84**
Molecular Weight of Stack Gas (Stack conditions)	**28.610**
Specific gravity of Stack Gas Relative to Air	**0.987**
Excess Air (%)	
Average Stack Velocity, FPM	**4113.6**
Actual Stack Gas Flow Rate, ACFM	**261695**
Actual Stack Gas Flow Rate, (Dry) ACFMD	**256265**
Stack Gas Flow Rate (Standard conditions), SCFMD	**132503**
Stack Gas Flow Rate (Standard conditions), SCFMW	**135310**

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Volumetric Air-Flow Rates

Plant	Gallatin Steel		
Location	Ghent, Kentucky		
Stack	Furnace C		
Run Date	5-3-01		
Run Number	1	**Volume Metered**	64.155
Start Time	1020	**Meter Temp (Deg R)**	537.3
Finish Time	1027	**Orsat CO2 %**	0
Barometric Pressure	29.74	**Orsat O2 %**	20.9
Stack Diameter (in.)	120	**Orsat CO %**	0
Stack Area sq. ft.	78.540	**Orsat N %**	79.1
Number of Points	16	**Condensate Volume**	28.1
Avg of SQRT of V.H.	0.3462	**Delta H (inches H2O)**	1.741
Meter Correction (Y)	0.992	**Stack Pressure**	29.42
Pitot Correction Factor	0.84	**Stack Temp (Deg R)**	563.4

==========

Moisture in stack gas, volume fraction	**0.021**
Dry Stack Gas, volume fraction	**0.979**
Molecular Weight of Stack Gas (Dry Basis)	**28.84**
Molecular Weight of Stack Gas (Stack conditions)	**28.610**
Specific gravity of Stack Gas Relative to Air	**0.987**
Excess Air (%)	
Average Stack Velocity, FPM	**1219.2**
Actual Stack Gas Flow Rate, ACFM	**95756**
Actual Stack Gas Flow Rate, (Dry) ACFMD	**93769**
Stack Gas Flow Rate (Standard conditions), SCFMD	**86409**
Stack Gas Flow Rate (Standard conditions), SCFMW	**88240**

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Volumetric Air-Flow Rates

Plant	Gallatin Steel		
Location	Ghent, Kentucky		
Stack	Cold Duct No. 1		
Run Date	5-3-01		
Run Number	2	**Volume Metered**	31.921
Start Time	1606	**Meter Temp (Deg R)**	535.6
Finish Time	1612	**Orsat CO2 %**	0
Barometric Pressure	29.66	**Orsat O2 %**	20.9
Stack Diameter (in.)	192	**Orsat CO %**	0
Stack Area sq. ft.	201.062	**Orsat N %**	79.1
Number of Points	16	**Condensate Volume**	16.5
Avg of SQRT of V.H.	1.4183	**Delta H (inches H2O)**	1.9
Meter Correction (Y)	0.992	**Stack Pressure**	29.37
Pitot Correction Factor	0.84	**Stack Temp (Deg R)**	596.6

==========

Moisture in stack gas, volume fraction	**0.024**
Dry Stack Gas, volume fraction	**0.976**
Molecular Weight of Stack Gas (Dry Basis)	**28.84**
Molecular Weight of Stack Gas (Stack conditions)	**28.570**
Specific gravity of Stack Gas Relative to Air	**0.986**
Excess Air (%)	
Average Stack Velocity, FPM	**5146.7**
Actual Stack Gas Flow Rate, ACFM	**1034806**
Actual Stack Gas Flow Rate, (Dry) ACFMD	**1009579**
Stack Gas Flow Rate (Standard conditions), SCFMD	**877068**
Stack Gas Flow Rate (Standard conditions), SCFMW	**898983**

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Volumetric Air-Flow Rates

Plant	Gallatin Steel		
Location	Ghent, Kentucky		
Stack	Cold Duct No. 2		
Run Date	5-3-01		
Run Number	2	**Volume Metered**	31.921
Start Time	1555	**Meter Temp (Deg R)**	535.6
Finish Time	1604	**Orsat CO2 %**	0
Barometric Pressure	29.66	**Orsat O2 %**	20.9
Stack Diameter (in.)	120	**Orsat CO %**	0
Stack Area sq. ft.	78.540	**Orsat N %**	79.1
Number of Points	16	**Condensate Volume**	16.5
Avg of SQRT of V.H.	0.0713	**Delta H (inches H2O)**	1.9
Meter Correction (Y)	0.992	**Stack Pressure**	29.48
Pitot Correction Factor	0.84	**Stack Temp (Deg R)**	566.2

==========

Moisture in stack gas, volume fraction	**0.024**
Dry Stack Gas, volume fraction	**0.976**
Molecular Weight of Stack Gas (Dry Basis)	**28.84**
Molecular Weight of Stack Gas (Stack conditions)	**28.570**
Specific gravity of Stack Gas Relative to Air	**0.986**
Excess Air (%)	
Average Stack Velocity, FPM	**251.6**
Actual Stack Gas Flow Rate, ACFM	**19761**
Actual Stack Gas Flow Rate, (Dry) ACFMD	**19279**
Stack Gas Flow Rate (Standard conditions), SCFMD	**17714**
Stack Gas Flow Rate (Standard conditions), SCFMW	**18157**

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Volumetric Air-Flow Rates

Plant	Gallatin Steel		
Location	Ghent, Kentucky		
Stack	LMF		
Run Date	5-3-01		
Run Number	2	**Volume Metered**	31.921
Start Time	1649	**Meter Temp (Deg R)**	535.6
Finish Time	1657	**Orsat CO2 %**	0
Barometric Pressure	29.66	**Orsat O2 %**	20.9
Stack Diameter (in.)	60	**Orsat CO %**	0
Stack Area sq. ft.	19.635	**Orsat N %**	79.1
Number of Points	12	**Condensate Volume**	16.5
Avg of SQRT of V.H.	0.2231	**Delta H (inches H2O)**	1.9
Meter Correction (Y)	0.992	**Stack Pressure**	29.32
Pitot Correction Factor	0.84	**Stack Temp (Deg R)**	619

==========

Moisture in stack gas, volume fraction	**0.024**
Dry Stack Gas, volume fraction	**0.976**
Molecular Weight of Stack Gas (Dry Basis)	**28.84**
Molecular Weight of Stack Gas (Stack conditions)	**28.570**
Specific gravity of Stack Gas Relative to Air	**0.986**
Excess Air (%)	
Average Stack Velocity, FPM	**825.3**
Actual Stack Gas Flow Rate, ACFM	**16205**
Actual Stack Gas Flow Rate, (Dry) ACFMD	**15810**
Stack Gas Flow Rate (Standard conditions), SCFMD	**13215**
Stack Gas Flow Rate (Standard conditions), SCFMW	**13545**

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Environmental Consultants

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Volumetric Air-Flow Rates

Plant	Gallatin Steel		
Location	Ghent, Kentucky		
Stack	Furnace A		
Run Date	5-3-01		
Run Number	2	**Volume Metered**	31.921
Start Time	1632	**Meter Temp (Deg R)**	535.6
Finish Time	1640	**Orsat CO2 %**	0
Barometric Pressure	29.66	**Orsat O2 %**	20.9
Stack Diameter (in.)	108	**Orsat CO %**	0
Stack Area sq. ft.	63.617	**Orsat N %**	79.1
Number of Points	12	**Condensate Volume**	16.5
Avg of SQRT of V.H.	0.2356	**Delta H (inches H2O)**	1.9
Meter Correction (Y)	0.992	**Stack Pressure**	29.39
Pitot Correction Factor	0.84	**Stack Temp (Deg R)**	583.5

==========

Moisture in stack gas, volume fraction	**0.024**
Dry Stack Gas, volume fraction	**0.976**
Molecular Weight of Stack Gas (Dry Basis)	**28.84**
Molecular Weight of Stack Gas (Stack conditions)	**28.570**
Specific gravity of Stack Gas Relative to Air	**0.986**
Excess Air (%)	
Average Stack Velocity, FPM	**845.2**
Actual Stack Gas Flow Rate, ACFM	**53769**
Actual Stack Gas Flow Rate, (Dry) ACFMD	**52458**
Stack Gas Flow Rate (Standard conditions), SCFMD	**46628**
Stack Gas Flow Rate (Standard conditions), SCFMW	**47793**

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Volumetric Air-Flow Rates

Plant	Gallatin Steel		
Location	Ghent, Kentucky		
Stack	Furnace C		
Run Date	5-3-01		
Run Number	2	**Volume Metered**	31.921
Start Time	1620	**Meter Temp (Deg R)**	535.6
Finish Time	1629	**Orsat CO2 %**	0
Barometric Pressure	29.66	**Orsat O2 %**	20.9
Stack Diameter (in.)	120	**Orsat CO %**	0
Stack Area sq. ft.	78.540	**Orsat N %**	79.1
Number of Points	12	**Condensate Volume**	16.5
Avg of SQRT of V.H.	0.7997	**Delta H (inches H2O)**	1.9
Meter Correction (Y)	0.992	**Stack Pressure**	29.37
Pitot Correction Factor	0.84	**Stack Temp (Deg R)**	970.2

==========

Moisture in stack gas, volume fraction	**0.024**
Dry Stack Gas, volume fraction	**0.976**
Molecular Weight of Stack Gas (Dry Basis)	**28.84**
Molecular Weight of Stack Gas (Stack conditions)	**28.570**
Specific gravity of Stack Gas Relative to Air	**0.986**
Excess Air (%)	
Average Stack Velocity, FPM	**3700.6**
Actual Stack Gas Flow Rate, ACFM	**290645**
Actual Stack Gas Flow Rate, (Dry) ACFMD	**283560**
Stack Gas Flow Rate (Standard conditions), SCFMD	**151482**
Stack Gas Flow Rate (Standard conditions), SCFMW	**155267**

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Volumetric Air-Flow Rates

Plant	Gallatin Steel		
Location	Ghent, Kentucky		
Stack	Cold Duct No. 1		
Run Date	5-3-01		
Run Number	3	**Volume Metered**	32.081
Start Time	2009	**Meter Temp (Deg R)**	536.5
Finish Time	2019	**Orsat CO2 %**	0
Barometric Pressure	29.66	**Orsat O2 %**	20.9
Stack Diameter (in.)	192	**Orsat CO %**	0
Stack Area sq. ft.	201.062	**Orsat N %**	79.1
Number of Points	16	**Condensate Volume**	16.3
Avg of SQRT of V.H.	1.4069	**Delta H (inches H2O)**	1.9
Meter Correction (Y)	0.992	**Stack Pressure**	29.38
Pitot Correction Factor	0.84	**Stack Temp (Deg R)**	578.3

==========

Moisture in stack gas, volume fraction	**0.024**
Dry Stack Gas, volume fraction	**0.976**
Molecular Weight of Stack Gas (Dry Basis)	**28.84**
Molecular Weight of Stack Gas (Stack conditions)	**28.580**
Specific gravity of Stack Gas Relative to Air	**0.986**
Excess Air (%)	
Average Stack Velocity, FPM	**5025.6**
Actual Stack Gas Flow Rate, ACFM	**1010457**
Actual Stack Gas Flow Rate, (Dry) ACFMD	**986212**
Stack Gas Flow Rate (Standard conditions), SCFMD	**884181**
Stack Gas Flow Rate (Standard conditions), SCFMW	**905918**

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Volumetric Air-Flow Rates

Plant	Gallatin Steel		
Location	Ghent, Kentucky		
Stack	Cold Duct No. 2		
Run Date	5-3-01		
Run Number	3	**Volume Metered**	32.081
Start Time	2021	**Meter Temp (Deg R)**	536.5
Finish Time	2029	**Orsat CO2 %**	0
Barometric Pressure	29.66	**Orsat O2 %**	20.9
Stack Diameter (in.)	120	**Orsat CO %**	0
Stack Area sq. ft.	78.540	**Orsat N %**	79.1
Number of Points	16	**Condensate Volume**	16.3
Avg of SQRT of V.H.	0.0213	**Delta H (inches H2O)**	1.9
Meter Correction (Y)	0.992	**Stack Pressure**	29.48
Pitot Correction Factor	0.84	**Stack Temp (Deg R)**	555.5

==========

Moisture in stack gas, volume fraction	**0.024**
Dry Stack Gas, volume fraction	**0.976**
Molecular Weight of Stack Gas (Dry Basis)	**28.84**
Molecular Weight of Stack Gas (Stack conditions)	**28.580**
Specific gravity of Stack Gas Relative to Air	**0.986**
Excess Air (%)	
Average Stack Velocity, FPM	**74.4**
Actual Stack Gas Flow Rate, ACFM	**5843**
Actual Stack Gas Flow Rate, (Dry) ACFMD	**5703**
Stack Gas Flow Rate (Standard conditions), SCFMD	**5341**
Stack Gas Flow Rate (Standard conditions), SCFMW	**5472**

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Volumetric Air-Flow Rates

Plant	Gallatin Steel		
Location	Ghent, Kentucky		
Stack	~~Furnace A~~ LMF		
Run Date	5-3-01		
Run Number	3	**Volume Metered**	32.081
Start Time	1932	**Meter Temp (Deg R)**	536.5
Finish Time	1940	**Orsat CO2 %**	0
Barometric Pressure	29.66	**Orsat O2 %**	20.9
Stack Diameter (in.)	60	**Orsat CO %**	0
Stack Area sq. ft.	19.635	**Orsat N %**	79.1
Number of Points	12	**Condensate Volume**	16.3
Avg of SQRT of V.H.	0.3519	**Delta H (inches H2O)**	1.9
Meter Correction (Y)	0.992	**Stack Pressure**	29.35
Pitot Correction Factor	0.84	**Stack Temp (Deg R)**	637.3

==========

Moisture in stack gas, volume fraction	**0.024**
Dry Stack Gas, volume fraction	**0.976**
Molecular Weight of Stack Gas (Dry Basis)	**28.84**
Molecular Weight of Stack Gas (Stack conditions)	**28.580**
Specific gravity of Stack Gas Relative to Air	**0.986**
Excess Air (%)	
Average Stack Velocity, FPM	**1320.3**
Actual Stack Gas Flow Rate, ACFM	**25924**
Actual Stack Gas Flow Rate, (Dry) ACFMD	**25302**
Stack Gas Flow Rate (Standard conditions), SCFMD	**20563**
Stack Gas Flow Rate (Standard conditions), SCFMW	**21069**

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Volumetric Air-Flow Rates

Plant	Gallatin Steel		
Location	Ghent, Kentucky		
Stack	Furnace A		
Run Date	5-3-01		
Run Number	3	**Volume Metered**	32.081
Start Time	1948	**Meter Temp (Deg R)**	536.5
Finish Time	1956	**Orsat CO2 %**	0
Barometric Pressure	29.66	**Orsat O2 %**	20.9
Stack Diameter (in.)	108	**Orsat CO %**	0
Stack Area sq. ft.	63.617	**Orsat N %**	79.1
Number of Points	12	**Condensate Volume**	16.3
Avg of SQRT of V.H.	0.2735	**Delta H (inches H2O)**	1.9
Meter Correction (Y)	0.992	**Stack Pressure**	29.23
Pitot Correction Factor	0.84	**Stack Temp (Deg R)**	610.6

==========

Moisture in stack gas, volume fraction	**0.024**
Dry Stack Gas, volume fraction	**0.976**
Molecular Weight of Stack Gas (Dry Basis)	**28.84**
Molecular Weight of Stack Gas (Stack conditions)	**28.580**
Specific gravity of Stack Gas Relative to Air	**0.986**
Excess Air (%)	
Average Stack Velocity, FPM	**1006.4**
Actual Stack Gas Flow Rate, ACFM	**64024**
Actual Stack Gas Flow Rate, (Dry) ACFMD	**62488**
Stack Gas Flow Rate (Standard conditions), SCFMD	**52789**
Stack Gas Flow Rate (Standard conditions), SCFMW	**54087**

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Volumetric Air-Flow Rates

Plant	Gallatin Steel		
Location	Ghent, Kentucky		
Stack	Furnace C		
Run Date	5-3-01		
Run Number	3	**Volume Metered**	32.081
Start Time	1959	**Meter Temp (Deg R)**	536.5
Finish Time	2005	**Orsat CO2 %**	0
Barometric Pressure	29.66	**Orsat O2 %**	20.9
Stack Diameter (in.)	120	**Orsat CO %**	0
Stack Area sq. ft.	78.540	**Orsat N %**	79.1
Number of Points	16	**Condensate Volume**	16.3
Avg of SQRT of V.H.	0.8919	**Delta H (inches H2O)**	1.9
Meter Correction (Y)	0.992	**Stack Pressure**	29.35
Pitot Correction Factor	0.84	**Stack Temp (Deg R)**	964.3

==========

Moisture in stack gas, volume fraction	**0.024**
Dry Stack Gas, volume fraction	**0.976**
Molecular Weight of Stack Gas (Dry Basis)	**28.84**
Molecular Weight of Stack Gas (Stack conditions)	**28.580**
Specific gravity of Stack Gas Relative to Air	**0.986**
Excess Air (%)	
Average Stack Velocity, FPM	**4116.1**
Actual Stack Gas Flow Rate, ACFM	**323278**
Actual Stack Gas Flow Rate, (Dry) ACFMD	**315521**
Stack Gas Flow Rate (Standard conditions), SCFMD	**169471**
Stack Gas Flow Rate (Standard conditions), SCFMW	**173637**

APPENDIX E

- MOISTURE RUN DATA SHEETS
- FLOW TRAVERSE DATA SHEETS
- PITOT TUBES - POST TEST CALIBRATION CHECK
- THERMOCOUPLE - POST TEST CALIBRATION CHECK
- GAS METER POST TEST CALIBRATION

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EPA METHOD 4
MOISTURE RUN DATA SHEET

TEST ID _____ PAGE 1 OF ____

Plant Gallatin Steel Source Baghouse
Plant Location Ghent Kentucky
Type of Sampling Train EPA Method 4
Type of Samples Moisture
Date 5-3-01 Run No. 1
Time Start 0940 Time End 1105
Sample Time 5.0 min/pf 85 Total Min
Bar. Pressure 29.74 "Hg Stack Pressure ____ "Hg
Assumed Moisture 2.0 % FDA 0.98
Weather Scattered Temperature 78 °F
Meter Box No. 4 ΔH 1.85 Y 0.992
Stack Dimensions Single Compartment (2)
Stack Area ____ (Effective ____ ft²)
Stack Height Approx 75 ft
Stack Diameter: Upstream NA Downstream NA
Port Size NA in Nipple Length NA
U Cord Length 200 feet

Mat'l Processing Rate ____
Gas Meter Readings: Final 502.492 ft³
Initial 438.337 ft³
Net 64.155 ft³
Impingers Vol. Gain 18 ml
Silica Gel No. BH1 Wt. Gain 10.1 g
Total Condensate 28.1 ml

Leak Checks: Meter Box/Pump OK
Pre-Test 0.008 CFM 10 "Hg Post-Test 0.004 CFM 5 "Hg
Box Operator COGGINS Probe Holder COGGINS
Pyrometer No. 4 Thermocouple No. TT2
Comments: ____

PORT AND TRAVERSE POINT NUMBER	DISTANCE FROM INSIDE STACK WALL (IN)	CLOCK TIME	GAS METER READING (FT³)	METER ORIFICE PRESS. DIFF		LAST IMPINGER TEMP. (°F)	DRY GAS METER TEMP. (°F)	VACUUM ON SAMPLE TRAIN ("Hg)
				CALC.	ACTUAL			
—	—	5.0	42.2	—	1.9	62	73	5
—	—	10.0	46.1	—	1.9	51	74	5
		15.0	49.9	—	1.9	51	74	5
		20.0	53.7	—	1.9	51	75	5
		25.0	57.5	—	1.8	51	75	5
		30.0	61.3	—	1.8	51	76	5
		35.0	65.1	—	1.8	51	76	5
		40.0	68.7	—	1.8	51	77	5
		45.0	72.5	—	1.7	51	77	5
		50.0	76.2	—	1.7	51	78	5
		55.0	80.0	—	1.7	51	78	5
		60.0	83.8	—	1.7	51	79	5

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PAGE 2 OF ____
RUN NO. 1

PORT AND TRAVERSE POINT NUMBER	DISTANCE FROM INSIDE STACK WALL (IN)	CLOCK TIME	GAS METER READING (FT^3)	STACK VELOCITY HEAD	METER ORIFICE PRESS. DIFF		STACK GAS TEMP. (°F)	SAMPLE BOX TEMP. (°F)	LAST IMPINGER TEMP. (°F)	DRY GAS METER TEMP. (°F)	VACUUM ON SAMPLE TRAIN ("Hg)
					CALC.	ACTUAL					
		65	87.4	—	—	1.6	—	—	50	79	5
		70	91.4	—	—	1.6	—	—	50	80	5
		75	95.1	—	—	1.6	—	—	50	80	5
		80	98.8	—	—	1.6	—	—	50	81	5
		85	502.492	—	—	1.6	—	—	50	82	5

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EPA METHOD 4
MOISTURE RUN DATA SHEET

TEST ID _____ PAGE 1 OF ____

Plant Gallatin Steel Source Baghouse
Plant Location Ghent Kentucky
Type of Sampling Train EPA Method 4
Type of Samples Moisture
Date 5-3-01 Run No. 2
Time Start 1635 Time End 1715
Sample Time 5.0 min/pf 40.0 Total Min
Bar. Pressure 29.66 "Hg Stack Pressure 29.66 "Hg
Assumed Moisture 2.0% FDA 0.98
Weather Scattered Temperature 75 °F
Meter Box No. 4 ΔH 1.85 Y 0.992
Stack Dimensions Single Compartment
Stack Area _____ (Effective _____ ft²)
Stack Height Approx 75 ft
Stack Diameter: Upstream NA Downstream NA
Port Size NA in Nipple Length NA
U Cord Length 200 feet

Mat'l Processing Rate _____
Gas Meter Readings: Final 536.948 ft³
Initial 505.027 ft³
Net 31.921 ft³
Impingers Vol. Gain 9 ml
Silica Gel No. BH2 Wt. Gain 7.5 g
Total Condensate 16.5 ml

Leak Checks: Meter Box/Pump OK
Pre-Test 0.008 CFM 10 "Hg Post-Test 0.004 CFM 5 "Hg
Box Operator COGGINS Probe Holder COGGINS
Pyrometer No. 4 Thermocouple No. TT2
Comments: _____

PORT AND TRAVERSE POINT NUMBER	DISTANCE FROM INSIDE STACK WALL (IN)	CLOCK TIME	GAS METER READING (FT³)	METER ORIFICE PRESS. DIFF		LAST IMPINGER TEMP. (°F)	DRY GAS METER TEMP. (°F)	VACUUM ON SAMPLE TRAIN ("Hg)
				CALC.	ACTUAL			
		5.0	9.0	—	1.9	66	75	5
		10.0	13.1	—	1.9	62	75	5
		15.0	16.9	—	1.9	59	75	5
		20.0	20.9	—	1.9	59	75	5
		25.0	24.9	—	1.9	58	76	5
		30.0	28.9	—	1.9	57	76	5
		35.0	32.9	—	1.9	57	76	5
		40.0	536.948	—	1.9	57	77	5

AASI FORM 213
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EPA METHOD 4
MOISTURE RUN DATA SHEET

TEST ID _____ PAGE 1 OF ____

Plant Gallatin Steel Source Baghouse
Plant Location Ghent Kentucky
Type of Sampling Train EPA Method 4
Type of Samples Moisture
Date 5-3-01 Run No. 3
Time Start 2035 Time End 2115
Sample Time 60 min/pt 40.0 Total Min
Bar. Pressure 29.06 "Hg Stack Pressure ____ "Hg
Assumed Moisture 2.0 % FDA 0.98
Weather Scattered Temperature 70 °F
Meter Box No. 4 ΔH 1.85 Y 0.992
Stack Dimensions Single Compartment
Stack Area ____ (Effective ____ ft²)
Stack Height Approx 75 ft
Stack Diameter: Upstream NA Downstream NA
Port Size NA in Nipple Length NA
U Cord Length 200 feet

Mat'l Processing Rate ____
Gas Meter Readings: Final 569.697 ft³
Initial 537.6116 ft³
Net ____ ft³
Impingers Vol. Gain 10 ml
Silica Gel No. ____ Wt. Gain 6.3 g
Total Condensate 16.3 ml

Leak Checks: Meter Box/Pump OK
Pre-Test 0.008 CFM 12 "Hg Post-Test 0.005 CFM 5 "Hg
Box Operator COGGINS Probe Holder COGGINS
Pyrometer No. 4 Thermocouple No. TC2
Comments: ____

PORT AND TRAVERSE POINT NUMBER	DISTANCE FROM INSIDE STACK WALL (IN)	CLOCK TIME	GAS METER READING (FT³)	METER ORIFICE PRESS. DIFF		LAST IMPINGER TEMP. (°F)	DRY GAS METER TEMP. (°F)	VACUUM ON SAMPLE TRAIN ("Hg)
				CALC.	ACTUAL			
		5.0	41.6	—	1.9	64	76	5
		10.0	45.5	—	1.9	61	76	5
		15.0	49.5	—	1.9	59	76	5
		20.0	53.5	—	1.9	58	76	5
		25.0	57.5	—	1.9	58	77	5
		30.0	61.6	—	1.9	59	77	5
		35.0	65.6	—	1.9	59	77	5
		40.0	569.697	—	1.9	59	77	5

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PRELIMINARY VELOCITY TRAVERSE

PLANT Gallatin Steel
DATE 5-3-01
LOCATION Cold Duct No. 1
STACK I.D. 192.0" (inside Diameter
BAROMETRIC PRESSURE, in.Hg 29.14 29.66 (R2+R3)
STACK GAUGE PRESSURE, in.H2O See each run
OPERATORS COGGINS LUTHER

$CO_2 = 0.0$
$O_2 = 20.9$

SCHEMATIC OF TRAVERSE POINT LAYOUT

RUN 1 @ 1137 (static = -3.45)

TRAVERSE POINT NUMBER	VELOCITY HEAD (Δp_s), in.H2O	STACK TEMPERATURE (T_s), °F
1	1.89	99
2	1.90	99
3	1.81	99
4	1.88	99
5	2.06	100
6	1.88	100
7	1.81	101
8	1.79	101

RUN 2 @ 1612 (static = -3.90)

TRAVERSE POINT NUMBER	VELOCITY HEAD (Δp_s), in.H2O	STACK TEMPERATURE (T_s), °F
1	1.85	135
2	1.83	134
3	1.91	135
4	2.00	136
5	2.22	135
6	2.25	136
7	2.03	137
8	1.98	136

RUN 3 @ 2019 (static = -3.75)

TRAVERSE POINT NUMBER	VELOCITY HEAD (Δp_s), in.H2O	STACK TEMPERATURE (T_s), °F
1	1.80	102
2	1.95	101
3	1.91	99
4	1.88	100
5	1.95	101
6	1.89	102
7	1.89	102
8	1.94	103
1	1.90	120
2	1.92	120
3	1.90	120
4	1.75	120
5	2.10	118
6	2.05	118
7	1.90	117
8	1.89	117

TRAVERSE POINT NUMBER	VELOCITY HEAD (Δp_s), in.H2O	STACK TEMPERATURE (T_s), °F
1	2.02	138
2	2.15	139
3	2.04	138
4	2.05	138
5	2.00	137
6	1.93	137
7	2.01	137
8	1.94	137
1	2.05	118
2	2.19	117
3	2.07	116
4	2.23	115
5	1.84	117
6	1.96	119
7	1.95	120
8	2.00	121

PRELIMINARY VELOCITY TRAVERSE

PLANT Gallatin Steel
DATE 5-3-01
LOCATION Cold Duct No. 2
STACK I.D. 120.0"
BAROMETRIC PRESSURE, in.Hg ~~30.14~~ 29.74/29.66 (R2*R3)
STACK GAUGE PRESSURE, in.H_2O
OPERATORS COGGINS/LUTHER

SCHEMATIC OF TRAVERSE POINT LAYOUT

TRAVERSE POINT NUMBER	VELOCITY HEAD (Δp_s), in.H_2O	STACK TEMPERATURE (T_s), °F
1	0.40	100
2	0.22	101
3	0.13	101
4	0.09	101
5	0.08	101
6	0.05	101
7	0.05	101
8	0.10	98
1	0.06	99
2	0.11	100
3	0.11	100
4	0.12	100
5	0.17	100
6	0.21	100
7	0.22	99
8	0.28	100
1	0.00	92
2	0.00	93
3	0.00	93
4	0.00	93
5	0.00	93
6	0.00	93
7	0.01	94
8	0.02	100

@1150 (static = -2.06)

@2029

TRAVERSE POINT NUMBER	VELOCITY HEAD (Δp_s), in.H_2O	STACK TEMPERATUR (T_s), °F
1	0.01	103
2	0.01	103
3	0.01	107
4	0.02	108
5	0.01	109
6	0.01	110
7	0.00	110
8	0.00	109
1	0.01	109
2	0.01	110
3	0.00	110
4	0.01	110
5	0.01	100
6	0.00	100
7	0.00	100
8	0.01	101
1	0.00	99
2	0.00	100
3	0.00	100
4	0.00	101
5	0.00	95
6	0.01	94
7	0.00	94
8	0.00	94

@1604 (static = -2.51)

(static = -2.43)

PRELIMINARY VELOCITY TRAVERSE

PLANT Gallatin Steel
DATE 5-3-01
LOCATION Furnace A
STACK I.D. 108.0" Inside diameter
BAROMETRIC PRESSURE, in.Hg 29.74 / 29.66 / 29.64
STACK GAUGE PRESSURE, in.H_2O
OPERATORS Coggins / Luttrell

SCHEMATIC OF TRAVERSE POINT LAYOUT

@1009 (Static = 7.4)

TRAVERSE POINT NUMBER	VELOCITY HEAD (Δp_s), in.H_2O	STACK TEMPERATURE (T_s), °F
1	0.79	546
2	0.81	548
3	0.77	557
4	0.82	558
5	0.83	540
6	0.81	526
7	0.75	531
8	0.80	547
9	0.65	554
10	0.66	548
11	0.73	530
12	0.78	544

@1956 (Static = -5.9)

TRAVERSE POINT NUMBER	VELOCITY HEAD (Δp_s), in.H_2O	STACK TEMPERATURE (T_s), °F
1	0.08	151
2	0.09	150
3	0.08	149
4	0.08	150
5	0.07	151
6	0.07	151
7	0.07	151
8	0.08	151
9	0.07	151
10	0.08	151
11	0.06	151
12	0.07	150

@1640 (Static = -3.7)

TRAVERSE POINT NUMBER	VELOCITY HEAD (Δp_s), in.H_2O	STACK TEMPERATUR (T_s), °F
1	0.05 ~~0.71~~	123~~540~~
2	0.06 ~~0.79~~	123~~544~~
3	0.07 ~~0.83~~	124~~546~~
4	0.06 ~~0.87~~	124~~542~~
5	0.05 ~~0.89~~	124~~545~~
6	0.05 ~~0.91~~	124~~535~~
7	0.05 ~~0.88~~	124~~546~~
8	0.04 ~~0.89~~	123~~553~~
9	0.06 ~~0.87~~	124~~529~~
10	0.07	123
11	0.06	123
12	0.05	123

PRELIMINARY VELOCITY TRAVERSE

PLANT Gallatin Steel
DATE 5-3-01
LOCATION Furnace C
STACK I.D. 120.0 = Inside diameter
BAROMETRIC PRESSURE, in.Hg 29.74/29.66/29.66
STACK GAUGE PRESSURE, in.H_2O
OPERATORS Coggins/Luther

SCHEMATIC OF TRAVERSE POINT LAYOUT

TRAVERSE POINT NUMBER	VELOCITY HEAD (Δp_s), in.H_2O	STACK TEMPERATURE (T_s), °F
1	0.16	103
2	0.14	103
3	0.16	103
4	0.17	103
5	0.14	103
6	0.15	103
7	0.11	103
8	0.08	104
1	0.10	104
2	0.10	104
3	0.10	104
4	0.11	103
5	0.11	104
6	0.10	104
7	0.10	104
8	0.11	102
1	0.76	453
2	0.79	457
3	0.82	473
4	0.88	469
5	0.89	488
6	0.85	494
7	0.88	486
8	0.81	482

@1020 (static = 4.30)

@2005 (static = -4.25)

TRAVERSE POINT NUMBER	VELOCITY HEAD (Δp_s), in.H_2O	STACK TEMPERATURE (T_s), °F
1	0.71	540
2	0.79	544
3	0.83	546
4	0.87	542
5	0.89	545
6	0.91	535
7	0.88	546
8	0.87	553
1	0.12	481
2	0.25	496
3	0.42	486
4	0.52	481
5	0.64	467
6	0.63	470
7	0.65	469
8	0.70	462
1	0.68	529
2	0.60	537
3	0.75	536
4	0.76	541
5	0.75	523
6	0.85	541
7	0.86	555
8	0.83	546

@1629 (static = -3.99)

AAS Inc. AMBIENT AIR SERVICES INCORPORATED
ENVIRONMENTAL CONSULTANTS

PRELIMINARY VELOCITY TRAVERSE

PLANT Gallatin Steel
DATE 5-3-01
LOCATION LMF
STACK I.D. 60.0" Inside Diameter
BAROMETRIC PRESSURE, in.Hg 29.74 / 29.66 / 29.66
STACK GAUGE PRESSURE, in.H2O
OPERATORS COGGINS / LUTHER

@1045 (Static = -4.15)

TRAVERSE POINT NUMBER	VELOCITY HEAD (Δp_s), in.H2O	STACK TEMPERATURE (T_s), °F
1	0.06	156
2	0.09	157
3	0.10	158
4	0.10	159
5	0.12	157
6	0.08	144
1	0.11	152
2	0.13	157
3	0.12	162
4	0.13	166
5	0.12	167
6	0.14	164
1	0.10	173
2	0.10	175
3	0.11	176
4	0.10	178
5	0.11	178
6	0.12	179
1	0.20	167
2	0.17	176
3	0.20	182
4	0.17	185
5	0.09	183
6	0.06	176

@1940 (Static = -4.20)

SCHEMATIC OF TRAVERSE POINT LAYOUT

@1657 (Static = -4.61)

TRAVERSE POINT NUMBER	VELOCITY HEAD (Δp_s), in.H2O	STACK TEMPERATURE (T_s), °F
1	0.21	173
2	0.08	169
3	0.08	168
4	0.08	168
5	0.09	166
6	0.08	164
1	0.03	144
2	0.01	149
3	0.03	154
4	0.02	153
5	0.01	150
6	0.01	150

PITOT TUBE CALIBRATION MEASUREMENTS

DATE CALIBRATED 5-10-01 PITOT TUBE Furnace "C" Duct

Pitot tube assembly level? ✓ Yes _____ No

Pitot tube openings damaged? _____ Yes (explain below) ✓ No

α_1 - 2.0 ° (<10°), α_2 - 2.0 ° (<10°), β_1 - 1.5 ° (<5°),

β_2 - 1.0 ° (<5°)

γ - 1.0 °, θ - 1.0 °, A - 1.076 in. - (Pa + Pb)

z = A sin γ - 0.019 in.; <0.32 / <1/8 in.

w = A sin θ - 0.019 in.; <0.08 / <1/32 in.

P_a 0.538 in. P_b 0.538 in. D_t - 0.375"

Calibration required? _____ Yes ✓ No

AAS Inc. AMBIENT AIR SERVICES INCORPORATED
ENVIRONMENTAL CONSULTANTS

PITOT TUBE CALIBRATION MEASUREMENTS

DATE CALIBRATED 5-10-01 PITOT TUBE Furnace "A" Duct

Pitot tube assembly level? ✓ Yes _____ No

Pitot tube openings damaged? _____ Yes (explain below) ✓ No

α_1 - 1.0 ° (<10°), α_2 - 1.0 ° (<10°), β_1 - 1.0 ° (<5°),

β_2 - 1.0 ° (<5°)

γ - 1.0 °, θ - 1.0 °, A - 1.078 in. - (Pa + Pb)

z - A sin γ - 0.019 in.; <0.32 / <1/8 in.

w - A sin θ - 0.019 in.; <0.08 / <1/32 in.

P_a 0.539 in. P_b 0.539 in. D_t - 0.375"

Calibration required? _____ Yes ✓ No

PITOT TUBE CALIBRATION MEASUREMENTS

DATE CALIBRATED 5-10-01 PITOT TUBE Cold Duct No. 2

Pitot tube assembly level? ✓ Yes _____ No

Pitot tube openings damaged? _____ Yes (explain below) ✓ No

α_1 - 2.0 ° (<10°), α_2 - 2.0 ° (<10°), β_1 - 1.0 ° (<5°),

β_2 - 1.0 ° (<5°)

γ - 1.0 °, θ - 2.0 °, A - 1.058 in. - (Pa + Pb)

z - A sin γ - _____ in.; <0.32 / <1/8 in.

w - A sin θ - _____ in.; <0.08 / <1/32 in.

P_a 0.529 in. P_b 0.529 in. D_t - 0.375"

Calibration required? _____ Yes ✓ No

PITOT TUBE CALIBRATION MEASUREMENTS

DATE CALIBRATED 5-9-01 PITOT TUBE Cold Duct No.1

Pitot tube assembly level? ✓ Yes _____ No

Pitot tube openings damaged? _____ Yes (explain below) ✓ No

α_1 - 1.0 ° (<10°), α_2 - 4.0 ° (<10°), β_1 - 1.0 ° (<5°),

β_2 - 1.0 ° (<5°)

γ - 1.0 °, θ - 1.0 °, A - 1.069 in. - (Pa + Pb)

z - A sin γ - 0.019 in.; <0.32 / <1/8 in.

w - A sin θ - 0.019 in.; <0.08 / <1/32 in.

P_a 0.534 in. P_b 0.535 in. D_t - 0.375"

Calibration required? _____ Yes ✓ No

AAS Inc. AMBIENT AIR SERVICES INCORPORATED
ENVIRONMENTAL CONSULTANTS

PITOT TUBE CALIBRATION MEASUREMENTS

DATE CALIBRATED 5-9-01 PITOT TUBE LMF DUCT

Pitot tube assembly level? ✓ Yes _____ No

Pitot tube openings damaged? _____ Yes (explain below) ✓ No

α_1 - 1.0 ° (<10°), α_2 - 1.0 ° (<10°), β_1 - 1.0 ° (<5°),

β_2 - 1.0 ° (<5°)

γ - 3.0 °, θ - 1.0 °, A - 1.106 in. - (Pa + Pb)

z - A sin γ - 0.058 in.; <0.32 / <1/8 in.

w - A sin θ - 0.019 in.; <0.08 / <1/32 in.

P_a 0.553 in. P_b 0.553 in. D_t - 0.375"

Calibration required? _____ Yes ✓ No

AMBIENT AIR SERVICES, INC.
106 Ambient Air Way
Starke, Florida

THERMOCOUPLE CALIBRATION FORM

Date 5-10-01 Time 1030
Ambient Temperature 75°F Source Lab
Barometric Pressure 30.05 Source Lab
Technician's Signature Earl Coggins

Standard Thermometer Type Ertco 64619
Manufacturer Mercury in glass
Serial Number 64619
Pyrometer Manufacturer Atkins Model 386
Serial Number 386-2 Meter Box

TEMPERATURE SOURCE (A)		Crushed Ice			Ambient Air			Boiling H2O			Hot Oil		
REFERENCE THERMOMETER	Actual Reading	32°F			75°F			212°F			510°F		
	Corrected Temperature												
CALIBRATED THERMOCOUPLE													
Serial Number	Location	Indicated Temp.	Difference (B)	Percent Diff. (C)	Indicated Temp.	Difference	Percent Diff.	Indicated Temp.	Difference	Percent Diff.	Indicated Temp.	Difference	Percent Diff.
	Furnace A				74	1		212	0		513	3	
	Furnace C				74	1		212	0		514	4	
1	Cold Duct 1	32	0		74	1		212	0				
	Cold Duct 2	32	0		74	1		212	0				
	LMF	32	0		74	1		212	0				

Comments: Hot Oil reference temperatures were obtained utilizing Mercury in glass, Curtin Matheson Scientific, model 09302

Calibration Tolerances Stack = 1.5% of value, Filter Box = ±5.4°F, Impinger = ±2°F, Meter = ±5.4°F (40CFR Pt 60, App. A Method 5, and QA Handbook Section 3.4, Method 5, page 13, Rev. 0)

(A) Type of calibration system used (B) Reference - Indicated = Difference

(C) $\left[\frac{\text{(ref. temp. °F + 460) - (indicated temp. °F + 460)}}{\text{(reference temp. °F + 460)}}\right]$ x 100

AASI 68A

AMBIENT AIR SERVICES, INC.
106 Ambient Air Way
Starke, Florida

THERMOCOUPLE CALIBRATION FORM

Date 5-10-01 Time 1030
Ambient Temperature 75°F Source Lab
Barometric Pressure 30.05 Source Lab
Technician's Signature Earl Cogin

Standard Thermometer Type Ertco Mercuryinglass
Manufacturer Ertco
Serial Number 64619
Pyrometer Manufacturer Omega Model 9414
Serial Number BB2BL-K-4 Meter Box 4

TEMPERATURE SOURCE (A)		ICE			Ambient Air			Boiling H2O					
REFERENCE THERMOMETER	Actual Reading	32°F			75°F			212°F					
	Corrected Temperature												
CALIBRATED THERMOCOUPLE		Indicated Temp.	Difference (B)	Percent Diff. (C)	Indicated Temp.	Difference	Percent Diff.	Indicated Temp.	Difference	Percent Diff.	Indicated Temp.	Difference	Percent Diff.
Serial Number	Location												
	Impinger	32	0		75	0		214	2				
	Meter In	32	0		74	1		214	2				
	Meter Out	32	0		75	0		214	2				

Comments:

Calibration Tolerances Stack = 1.5% of value, Filter Box = ±5.4°F, Impinger = ±2°F, Meter = ±5.4°F (40CFR Pt 60, App. A Method 5, and QA Handbook Section 3.4, Method 5, page 13, Rev. 0)

(A) Type of calibration system used (B) Reference - Indicated = Difference

(C) $\left[\frac{\text{(ref. temp. °F + 460) - (indicated temp. °F + 460)}}{\text{(reference temp. °F + 460)}}\right] \times 100$

AASI 68A

POSTTEST DRY GAS METER CALIBRATION DATA (ENGLISH UNITS)

Test numbers: All Date: 5-9-01 Meter Box number: 4

Barometric Pressure: 29.99 inches Hg. Dry Gas Meter Number: 4 Pretest Y: 0.99

Plant: Gallatin Steel Location: Ghent, Kentucky

Orifice manomtr setting (DH), inches H20	Gas volume		Temperature				Time in minutes	Vacuum setting inches Hg	Yi
	Wet test meter (Vw), cu.ft.	Dry gas meter (Vd), cu.ft.	Wet test meter (Tw), deg F	Dry gas meter					
				Inlet (Tdi), deg F	Outlet (Tdo), deg F	Average (Td), deg F			
1.90	10.320	10.764	77.50	112.5	89.5	101.00	13.38	5.0	0.9960
1.90	10.768	11.282	78.75	114.0	91.5	102.75	14.01	5.0	0.9923
1.90	12.983	13.613	79.75	112.5	91.5	102.00	16.87	5.0	0.9884
									0.992

If there is only one thermometer on the dry gas meter, record the temperature under Td

Vw= Gas volume passing through the wet test meter, in cubic feet
Vd= Gas volume passing through the dry gas meter, in cubic feet
Tw= Temperature of the gas in the wet test meter, degrees farenheit
Tdi= Temperature of the inlet gas of the dry gas meter, degrees farenheit
Tdo= Temperature of the outlet gas of the dry gas meter, degrees farenheit
Td= Average temperature of the gas in the dry gs meter, obtained by the average of Tdi and Tdo, degrees farenheit
DH= Pressure differential across orifice, inches H2O
Yi= Ratio of accuracy of wet test meter to dry gas meter for each run.
Y= Average ratio of accuracy of wet test meter to dry gas meter for all three runs; tolerance = pretest Y plus/minus 0.05Y
Pb= Barometric pressure, inches Mercury
Time= Time of calibration run, in minutes.

APPENDIX F

- PRODUCTION DATA

- TEST NOTIFICATION LETTER

Gallatin Steel Company - Fan Amps, Damper Positions and Furnace Static Pressure Readings for May 3, 2001

RUN 1:	MA 1 RUNNING AMPS	DP14A % OPEN	MA 2 RUNNING AMPS	DP14B % OPEN	MA 3 RUNNING AMPS	DP14C % OPEN	MA 4 RUNNING AMPS	DP14D % OPEN	MA 5 RUNNING AMPS	DP14E % OPEN	HG 1 RUNNING AMPS	DP13A % OPEN	HG 2 RUNNING AMPS	DP13B % OPEN	HG 3 RUNNING AMPS	DP13C % OPEN	DP 1A % OPEN	DP 2A % OPEN	DP 2 % OPEN	DP 1 % OPEN	DP 4 % OPEN	DP 4A % OPEN	DP 7A % OPEN	DP 7C % OPEN	DP 8 % OPEN	DP 7B % OPEN	DP 3 C&D % OPEN	DP 3 A&B % OPEN	DP 6 % OPEN	DP 5 % OPEN	DP 9 % OPEN	EAF C ROOF PRESSURE PT 2 Inches / 100	EAF A ROOF PRESSURE PT 1 inches /100
9:38	125	76	116	71	126	77	122	74	126	77	53	67	0	0	46	58	41	0	0	40	43	0	0	0	0	0	100	100	0	23	0	0.00	-0.13
9:52	121	74	114	70	124	76	121	74	121	74	46	58	0	0	41	52	10	0	0	99	21	0	0	0	0	0	100	100	0	12	0	0.00	-0.03
10:07	120	73	111	68	122	74	121	74	121	74	45	57	0	0	41	52	20	0	0	99	98	0	0	0	0	0	100	100	0	22	0	0.01	-0.03
10:22	118	72	114	70	124	76	122	74	123	75	47	59	0	0	43	54	20	0	0	96	60	0	0	0	0	0	100	100	0	22	0	0.02	-0.07
10:37	125	76	116	71	128	78	124	74	124	76	50	63	0	0	46	58	91	0	0	19	21	0	0	0	0	0	100	100	0	22	67	0.20	-0.05
10:52	118	72	111	68	121	74	119	73	120	73	47	59	0	0	42	53	91	0	0	0	43	0	0	0	0	0	100	100	0	12	67	0.20	-0.02
11:07	118	72	111	68	121	74	119	73	121	74	46	58	0	0	41	52	91	0	0	19	21	0	0	0	0	0	100	100	0	23	0	0.10	-0.05
11:22	118	72	111	68	121	74	119	73	121	74	47	59	0	0	41	52	91	0	0	19	43	0	0	0	0	0	100	100	0	23	0	-0.04	-0.05
11:37	120	73	114	70	124	76	121	74	121	74	50	63	0	0	46	58	11	0	0	55	21	0	0	0	0	0	100	100	0	13	68	0.06	-0.1
11:52	115	70	110	67	121	74	119	73	118	72	45	57	0	0	41	52	20	0	0	99	21	0	0	0	0	0	100	100	0	23	68	0.00	-0.01
12:07	115	70	107	65	118	72	116	71	116	71	45	57	0	0	41	52	21	0	0	99	21	0	0	0	0	0	100	100	0	12	0	0.02	-0.05
12:22	120	73	114	70	124	76	121	74	121	74	49	62	0	0	44	56	77	0	0	39	43	0	0	0	0	0	100	100	0	22	0	-0.02	-0.06
12:37	118	72	111	68	121	74	119	73	121	74	46	58	0	0	42	53	41	0	0	99	21	0	0	0	0	0	100	100	0	22	0	-0.02	-0.06
12:47	118	72	111	68	119	73	116	71	116	71	46	58	0	0	42	53	91	0	0	0	43	0	0	0	0	0	100	100	0	22	0	0.16	-0.04
RUN 2:																																	
15:03	121	74	114	70	122	74	121	74	121	74	51	65	0	0	46	58	21	0	0	39	21	0	0	0	0	0	100	100	0	22	0	0.04	-0.11
15:18	113	70	110	67	118	72	116	71	116	71	45	57	0	0	41	52	11	0	0	99	21	0	0	0	0	0	100	100	0	23	0	0.01	-0.05
15:33	115	70	111	68	118	72	116	72	116	71	45	57	0	0	41	52	11	0	0	99	21	0	0	0	0	0	100	100	0	11	0	0.05	-0.04
15:48	115	70	110	67	119	73	119	73	116	71	45	57	0	0	41	52	20	0	0	83	43	0	0	0	0	0	100	100	0	22	0	0.02	-0.06
16:03	121	74	116	71	126	77	124	76	126	77	55	70	0	0	46	58	91	0	0	20	36	0	0	0	0	0	100	100	0	22	0	0.04	-0.05
16:18	117	71	111	68	119	73	119	73	118	72	46	58	0	0	42	53	91	0	0	0	21	0	0	0	0	0	100	100	0	13	0	0.20	-0.03
16:33	115	70	107	65	116	71	116	71	116	71	47	59	0	0	42	53	91	0	0	19	60	0	0	0	0	0	100	100	0	13	0	0.17	-0.04
16:48	118	72	111	68	119	74	119	73	121	74	47	59	0	0	42	53	91	0	0	19	43	0	0	0	0	0	100	100	0	23	0	0	-0.04
17:03	120	73	114	70	121	74	121	74	121	74	50	63	0	0	46	58	11	0	0	72	43	0	0	0	0	0	100	100	0	22	0	-0.01	-0.05
17:18	118	72	113	69	122	74	119	73	121	74	47	59	0	0	43	54	20	0	0	99	21	0	0	0	0	0	100	100	0	22	0	0.01	-0.04
17:33	115	70	110	67	118	72	119	73	116	71	45	57	0	0	41	52	20	0	0	99	43	0	0	0	0	0	100	100	0	23	0	0.02	-0.02
17:48	123	75	116	71	124	76	124	76	123	75	51	63	0	0	48	61	41	0	0	0	21	0	0	0	0	0	100	100	0	13	67	-0.03	-0.05
17:55	121	74	114	70	124	76	122	74	121	74	50	63	0	0	45	57	91	0	0	0	21	0	0	0	0	0	100	100	0	22	67	0.2	-0.04

Gallatin Steel Company - Fan Amps, Damper Positions and Furnace Static Pressure Readings for May 3, 2001

RUN 1:	MA 1 RUNNING AMPS	DP14A % OPEN	MA 2 RUNNING AMPS	DP14B % OPEN	MA 3 RUNNING AMPS	DP14C % OPEN	MA 4 RUNNING AMPS	DP14D % OPEN	MA 5 RUNNING AMPS	DP14E % OPEN	HG 1 RUNNING AMPS	DP13A % OPEN	HG 2 RUNNING AMPS	DP13B % OPEN	HG 3 RUNNING AMPS	DP13C % OPEN	DP 1A % OPEN	DP 2A % OPEN	DP 2 % OPEN	DP 1 % OPEN	DP 4 % OPEN	DP 4A % OPEN	DP 7A % OPEN	DP 7C % OPEN	DP 8 % OPEN	DP 7B % OPEN	DP 3 C&D % OPEN	DP 3 A&B % OPEN	DP 6 % OPEN	DP 5 % OPEN	DP 9 % OPEN	EAF C ROOF PRESSURE PT 2 Inches / 100	EAF A ROOF PRESSURE PT 1 Inches /100
RUN 3:																																	
18:39	121	74	114	70	122	74	121	74	121	74	50	63	0	0	46	58	21	0	0	39	21	0	0	0	0	0	100	100	0	22	0	-0.01	-0.12
18:54	115	70	111	68	116	71	116	71	116	71	47	59	0	0	43	54	11	0	0	85	21	0	0	0	0	0	100	100	0	12	0	0	-0.09
19:09	118	72	113	69	121	74	121	74	120	73	46	58	0	0	42	53	20	0	0	99	21	0	0	0	0	0	100	100	0	22	0	0	-0.02
19:24	118	72	110	67	118	72	116	71	118	72	45	57	0	0	41	52	20	0	0	99	21	0	0	0	0	0	100	100	0	22	0	0.00	0.02
19:39	121	74	116	71	124	76	122	74	123	75	50	63	0	0	46	58	41	0	0	12	43	0	0	0	0	0	100	100	0	11	68	0.06	-0.06
19:54	120	73	114	70	124	76	122	74	121	74	50	63	0	0	43	54	91	0	0	19	21	0	0	0	0	0	100	100	0	12	68	0.2	-0.08
20:09	121	74	114	70	124	76	122	74	121	74	49	62	0	0	43	54	91	0	0	19	99	0	0	0	0	0	100	100	0	22	0	0.12	-0.07
20:24	121	74	113	69	122	74	121	74	121	74	47	59	0	0	41	52	91	0	0	19	21	0	0	0	0	0	100	100	0	22	0	0.01	-0.07
20:39	123	75	116	71	126	77	124	76	121	74	50	63	0	0	46	58	11	0	0	43	21	0	0	0	0	0	100	100	0	12	0	-0.01	-0.08
20:54	121	73	114	70	122	74	119	73	121	74	47	59	0	0	41	52	10	0	0	98	43	0	0	0	0	0	100	100	0	12	0	0.01	-0.03
21:09	118	72	111	68	121	74	119	73	120	73	45	57	0	0	41	52	20	0	0	99	99	0	0	0	0	0	100	100	0	23	0	0.02	-0.04
21:24	118	72	113	69	121	74	119	73	121	74	45	57	0	0	41	52	20	0	0	99	21	0	0	0	0	0	100	100	0	23	0	0.02	-0.06
21:39	121	73	114	70	124	76	122	74	123	75	47	59	0	0	43	54	20	0	0	88	43	0	0	67	0	0	100	100	0	23	0	0.02	-0.13
21:54	121	74	116	71	124	76	122	74	123	75	55	70	0	0	47	59	71	0	0	0	43	0	0	67	0	0	100	100	0	22	0	-0.07	-0.04

Damper Legend

DP1A	C Shell water cooled damper
DP2A	C Shell slag damper
DP2	A Shell slag damper
DP1	A Shell water cooled damper
DP4	LMF roof
DP4A	LMF dilution air
DP7A	Ladle tearout
DP7C	Ladle drying
DP8	Ladle dump
DP7B	Ladle preheat
DP3D/DP3C	C Shell canopy
DP3B/DP3A	A Shell canopy
DP5	Caster canopy
DP9	Tundish deskull

05/03/01MAGNAHELIC CHECK SHEET EPA TEST

MONTH May	MAGNAHELIC CHECKS	YEAR 2001

COMP. NUMBER	PRESSURE DIFFERENTIAL IN COMPARTMENTS						
	DATE 5-3-01		Run # 1				
TIME	09:38	9:52	10:07	10:22	10:37	10:52	11:07
1	6.4	6.1	CL 6.3	6.0	6.1	6.4	6.1
2	5.6	5.5	CL 5.6	5.5	5.6	5.6	5.6
3	5.7	5.7	6.2	5.6	5.7	5.7	5.8
4	5.3	5.3	5.7	5.4	5.5	5.3	5.5
5	5.5	5.6	6.1	5.5	5.7	5.5	5.7
6	5.5	5.7	6.3	5.7	5.8	5.5	6.0
7	5.5	5.4	5.9	5.4	5.5	5.4	5.5
8	5.4	5.5	6.1	5.5	5.6	5.5	5.7
9	Cleaning 5.1	5.5	6.0	5.4	5.6	5.3	5.6
10	4.5	5.4	6.0	5.1	5.3	CL 5.1	5.1
11	5.5	5.0	5.5	5.0	5.2	5.5	5.2
12	6.0	5.5	6.0	5.4	5.7	6.0	5.6
13	5.8	5.4	5.6	5.1	5.2	5.7	5.5
14	4.9	5.0	5.5	5.0	5.0	5.5	5.2
15	5.4	5.0	5.3	5.0	5.0	5.3	5.1
16	5.7	5.5	5.7	5.1	5.3	5.7	5.5
17	6.1	5.8	6.3	CL 5.5	5.7	6.0	6.0
18	6.0	5.8	6.1	6.4	5.5	6.0	5.9
19	5.5	5.3	5.5	5.6	5.0	5.5	5.3
20	5.5	5.3	5.5	5.7	5.0	5.5	5.3
21	5.6	5.2	5.6	5.8	5.0	5.6	5.2
22	5.8	5.3	5.8	6.1	5.2	5.7	5.5
23	5.7	5.0	5.6	6.0	5.2	5.6	5.0
24	5.7	CL 5.0	5.5	6.0	5.3	5.6	4.5

05/03/01MAGNAHELIC CHECK SHEET EPA TEST

MONTH May	MAGNAHELIC CHECKS	YEAR 2001

COMP. NUMBER	PRESSURE DIFFERENTIAL IN COMPARTMENTS						
	DATE 5-3-01		Run # 1				
TIME	11:22	11:37	11:52	12:07	12:22	12:37	12:47
1	6.5	6.0	6.3	6.5	6.4	6.5	6.3
2	5.6	5.4	5.6	5.8	5.8	5.8	5.7
3	CL 5.8	5.5	5.8	6.1	5.9	6.0	5.9
4	6.0	5.3	5.5	5.8	5.7	5.4	5.6
5	5.7	5.5	5.9	6.0	6.0	CL 5.5	5.8
6	6.4	5.6	6.0	6.0	6.0	6.5	5.9
7	5.9	5.3	5.5	5.7	5.6	5.9	5.5
8	6.1	5.2	5.6	5.9	5.7	6.2	5.6
9	6.1	5.3	5.7	5.7	5.8	6.1	5.6
10	4.9	5.1	5.6	5.5	5.5	6.0	5.4
11	5.7	4.8	5.3	5.0	5.3	5.7	5.0
12	6.1	5.3	5.7	CL 5.5	5.8	6.0	5.5
13	5.7	5.1	5.4	6.0	5.3	5.8	5.7
14	5.4	5.0	5.4	5.8	5.1	5.5	5.3
15	5.3	4.9	5.1	5.6	4.9	5.3	5.1
16	5.7	5.2	5.6	6.1	5.2	5.7	CL 5.4
17	6.2	5.5	6.0	6.5	5.7	6.3	6.5
18	6.0	CL 5.3	5.7	6.3	5.7	6.3	6.5
19	5.5	5.5	5.4	5.8	5.1	5.6	6.0
20	5.5	5.5	5.5	5.9	5.2	5.6	6.0
21	5.6	5.6	5.4	6.0	5.1	5.6	6.0
22	5.9	6.0	5.6	6.2	5.3	6.0	6.4
23	5.7	5.6	5.4	6.0	5.2	5.8	6.0
24	5.5	5.5	5.5	5.8	5.1	5.8	5.9

05/03/01MAGNAHELIC CHECK SHEET EPA TEST

MONTH May	MAGNAHELIC CHECKS	YEAR 2001

COMP. NUMBER	PRESSURE DIFFERENTIAL IN COMPARTMENTS						
	DATE 05/03/01		Run # 2				
TIME	15:03	15:18	15:33	15:48	16:03	16:18	16:33
1	6.5	6.5	6.9	5.9	6.5	6.6	6.7
2	6.0	5.7	6.1	6.0	5.9	5.7	6.0
3	6.1	6.0	6.3	6.1	6.0	6.0	6.2
4	5.6	5.7	6.0	5.9	5.8	5.5	5.8
5	CL 5.7	6.8	6.2	6.1	5.9	5.7	6.2
6	6.8	6.2	6.5	6.3	6.0	CL 5.7	6.3
7	6.2	5.7	6.0	5.9	5.6	6.0	5.9
8	6.4	5.9	6.2	6.0	5.8	6.0	6.1
9	6.5	5.9	6.1	5.9	5.9	6.1	6.0
10	6.3	5.8	6.0	5.5	5.1	4.8	5.9
11	6.0	5.5	5.8	5.3	5.3	5.7	5.8
12	6.3	5.8	6.0	5.6	5.7	6.2	6.0
13	6.0	5.8	6.0	CL 5.8	5.4	5.9	6.0
14	5.7	5.4	5.7	4.3	4.8	5.0	5.5
15	5.7	5.3	5.5	6.1	5.0	5.5	5.4
16	6.1	5.5	5.9	6.5	5.3	5.9	5.7
17	6.5	6.0	6.3	6.8	5.0	5.5	5.3
18	6.4	5.7	6.2	6.8	5.7	6.3	6.1
19	5.8	5.5	5.7	6.5	5.2	5.7	5.8
20	5.5	CL 5.5	5.6	6.0	5.0	5.5	5.3
21	6.3	6.0	5.9	6.4	5.2	5.8	CL 5.5
22	6.3	6.3	6.1	6.7	5.4	6.1	6.4
23	6.0	6.3	5.9	6.5	5.3	5.9	6.3
24	5.8	5.9	5.5	6.2	5.0	5.7	6.0

05/03/01MAGNAHELIC CHECK SHEET EPA TEST

MONTH May	MAGNAHELIC CHECKS	YEAR 2001

COMP. NUMBER	PRESSURE DIFFERENTIAL IN COMPARTMENTS						
	DATE 05/03/01		Run # 2				
TIME	14:48	17:03	17:18	17:33	17:48	17:55	
1	5.9	6.4	6.7	7.0	6.7	6.5	
2	6.0	5.7	6.0	6.0	5.9	5.7	
3	6.4	5.8	6.1	6.0	6.0	6.0	
4	6.0	5.5	5.8	5.7	5.8	5.7	
5	6.3	5.7	6.2	6.0	6.0	6.0	
6	6.5	6.0	6.3	5.9	6.1	6.0	
7	6.1	5.5	5.9	5.6	5.7	5.6	
8	6.5	5.6	6.0	CL 6.0	6.0	5.7	
9	6.5	5.6	6.0	6.4	5.9	5.7	
10	6.6	5.2	4.8	4.9	5.5	5.5	
11	6.0	4.8	5.2	5.7	5.3	5.3	
12	6.3	5.3	6.0	6.3	5.8	5.7	
13	6.0	5.5	5.8	6.3	5.6	5.4	
14	5.7	5.0	5.5	6.0	5.4	5.3	
15	5.6	CL 5.0	5.3	6.0	5.3	5.1	
16	5.9	6.0	5.7	6.2	5.5	5.5	
17	5.5	5.5	5.5	5.7	5.2	5.0	
18	6.5	6.3	6.1	6.7	5.9	5.8	
19	5.8	6.0	5.5	6.0	5.5	5.3	
20	5.5	5.8	5.2	5.9	5.1	5.1	
21	5.9	6.0	5.5	6.1	5.2	5.2	
22	6.3	6.2	5.7	6.5	5.7	5.6	
23	6.0	6.0	5.8	4.3	CL 5.0	5.5	
24	5.8	5.9	5.5	6.0	6.0	5.3	

MONTH MAY	MAGNAHELIC CHECKS	YEAR 2001

COMP. NUMBER	PRESSURE DIFFERENTIAL IN COMPARTMENTS						
	DATE 5/03/01		Run # 3				
TIME	18:39	18:54	19:09	19:24	19:39	19:54	20:09
1	7.0	6.8	6.6	7.0	7.0	7.0	6.5
2	CLEANING	5.8	5.8	6.0	6.0	5.9	5.6
3	6.5	6.0	6.0	6.0	6.0	CLEANING	5.9
4	6.0	5.5	5.5	5.6	5.8	6.0	5.6
5	6.5	6.0	6.0	6.0	6.0	6.2	5.9
6	6.5	6.0	6.0	6.0	6.2	6.4	5.9
7	6.0	5.6	5.6	5.8	5.8	6.0	5.5
8	6.5	5.8	5.8	6.0	6.0	6.4	5.7
9	6.4	5.8	5.8	5.6	6.0	6.4	5.6
10	5.0	5.5	5.5	CLEANING	5.5	6.0	4.4
11	5.9	5.2	5.4	6.0	5.5	5.6	4.5
12	6.2	5.5	5.6	6.2	5.8	6.0	5.5
13	6.0	5.6	5.5	6.2	5.7	6.0	5.5
14	5.6	5.5	5.4	6.0	5.5	5.5	5.4
15	5.5	5.2	5.2	6.0	5.5	5.5	5.0
16	5.9	CLEANING	5.5	6.0	5.7	6.0	5.4
17	5.4	5.5	5.0	5.5	6.0	6.2	5.6
18	6.0	6.5	5.9	6.5	6.0	6.0	5.4
19	5.6	6.0	5.4	6.0	5.2	5.5	CL 5.3
20	5.5	6.0	5.0	5.6	5.0	5.5	5.6
21	5.6	6.0	5.5	6.0	5.0	5.7	5.9
22	6.0	6.5	5.8	6.5	5.5	6.0	6.1
23	5.9	6.0	5.5	6.0	5.2	5.7	6.0
24	5.6	6.0	5.2	6.0	5.0	5.7	5.9

05/03/01MAGNAHELIC CHECK SHEET EPA TEST

MONTH MAY	MAGNAHELIC CHECKS	YEAR 2001

COMP. NUMBER	PRESSURE DIFFERENTIAL IN COMPARTMENTS						
	DATE 5/03/01		Run # 3				
TIME	20:24	20:39	20:54	21:09	21:24	21:39	21:45
1	6.8	6.5	6.5	6.9	6.5	6.7	6.7
2	6.0	5.5	5.7	6.9	5.6	6.0	5.7
3	6.0	5.6	5.9	6.0	6.0	6.0	5.7
4	5.6	5.5	5.5	5.4	5.5	5.7	5.2
5	6.0	5.5	5.7	CLEANING	5.9	6.0	CLEANING
6	6.2	5.6	5.9	5.5	6.0	6.2	6.5
7	5.8	5.4	5.5	6.0	5.6	5.9	6.0
8	6.0	5.5	5.6	6.1	5.9	6.0	6.2
9	6.0	5.5	5.6	6.1	5.7	6.0	6.2
10	4.5	4.2	4.2	4.7	5.5	5.8	6.0
11	5.0	4.9	5.2	5.7	5.0	5.2	5.5
12	5.8	CLEANING	5.6	6.0	5.6	5.9	6.0
13	5.6	5.9	5.2	6.0	5.6	5.7	5.8
14	5.5	5.5	5.0	5.6	5.4	5.5	5.5
15	5.0	5.3	5.0	5.5	5.0	5.2	5.5
16	5.5	5.6	5.2	5.9	5.5	5.5	5.7
17	5.0	5.2	4.6	5.2	6.0	6.0	6.2
18	6.0	6.0	5.5	6.0	5.6	5.8	6.0
19	5.5	5.8	5.0	5.6	5.5	5.5	5.5
20	5.5	5.8	5.0	5.8	CLEANING	5.5	5.6
21	5.5	5.9	5.0	5.8	6.0	5.5	5.7
22	5.9	6.0	5.4	6.0	6.5	6.0	6.0
23	5.5	5.8	5.0	5.6	6.0	5.5	5.8
24	5.5	5.6	5.0	5.5	6.0	5.5	5.6

GALLATIN STEEL

ISO 9002 CERTIFIED
QS 9000 CERTIFIED

March 28, 2001

Mr. Gerald Slucher
Source Sampling and Data Management Section
Technical Services Branch
Division for Air Quality
803 Schenkel Lane
Frankfort, KY 40601-1403

RE: Gallatin Steel Company, Warsaw, KY, ID # 079-1380-0018
Permit Number V-99-003
Compliance Test Protocol for Emissions Testing

Dear Mr. Slucher:

Gallatin Steel's air testing firm, Ambient Air Services, Inc., is scheduled to be at Gallatin Steel the first week of May to conduct emissions testing on emission point E1 (01) for NOx and SO_2. In accordance with the conditions in our permit, we are not required to conduct testing for VOC, PM, CO, and lead emissions this year based on our test results for the 1998 and 1999.

The protocol submitted to your attention on January 7, 1998 will be followed for the testing of NOx and SO_2 with the following listed changes:

1) For NOx, three runs each of three heat cycles in duration will be performed with the inlet probe being positioned in the discharge plenum of the baghouse.
2) For SO_2, in order to obtain statistically valid sampling of levels in the baghouse (since there is not homogeneity in the baghouse), we will be testing compartments in pairs (instead of testing one single compartment) over a total of four runs, each run consisting of three heats. We are requesting to test 8 of the 24 compartments during the four runs, two compartments tested during each run. The results of the sampling will provide more accurate information and will produce an average ppm level for the baghouse emissions. Please note that 40 CFR 60 supports and addresses multiple measurement sites for correctly testing particulate emissions. This same logic is also applicable to SO_2 emissions, and supports the use of an "alternate" method to produce more accurate results. Mr. Frazier approved the use of this procedure for the annual SO_2 testing that occurred last year on May 5.

The performance testing is tentatively scheduled to begin on Thursday, May 3 and we will provide you with notification of the exact test date and start time at least 10 days prior to the testing. A source testing report that presents the results of the performance tests will be submitted to the DAQ within 45 days after the completion of the fieldwork in accordance with the permit.

R.R. 1 Box 320
Ghent, Ky 41045-9704
859.567.3100
859.567.3165 fax
www.gallatinsteel.com

If you have any questions or comments, please contact me at RR# 1, Box 320, Ghent, KY 41045 or by telephone at 859-567-3141.

Sincerely yours,

Valerie Hudson

Valerie A. Hudson, P.E.
Process Manager - Environmental Systems

cc: Edd Frazier, DAQ - Permit Review Branch
Clay Redmond, DAQ - Florence Regional Office
Joe Cooksey, Ambient Air Services, Inc.

APPENDIX G

PROJECT PARTICIPANTS

PROJECT PARTICIPANTS

AMBIENT AIR SERVICES, INC.

Joe Cooksey
Earl Coggins
Alan Luther

GALLATIN STEEL

Valerie Hudson
Joe Dougherty

STATE OBSERVER

Gerald Slucher

GALLATIN STEEL

ISO 9002 CERTIFIED
QS 9000 CERTIFIED

March 28, 2001

Mr. Gerald Slucher
Source Sampling and Data Management Section
Technical Services Branch
Division for Air Quality
803 Schenkel Lane
Frankfort, KY 40601-1403

RE: Gallatin Steel Company, Warsaw, KY, ID # 079-1380-0018
Permit Number V-99-003
Compliance Test Protocol for Emissions Testing

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Gallatin Steel's air testing firm, Ambient Air Services, Inc., is scheduled to be at Gallatin Steel the first week of May to conduct emissions testing on emission point E1 (01) for NOx and SO_2. In accordance with the conditions in our permit, we are not required to conduct testing for VOC, PM, CO, and lead emissions this year based on our test results for the 1998 and 1999.

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R.R. 1 Box 320
Ghent, Ky 41045-9704
859.567.3100
859.567.3165 fax
www.gallatinsteel.com

If you have any questions or comments, please contact me at RR# 1, Box 320, Ghent, KY 41045 or by telephone at 859-567-3141.

Sincerely yours,

Valerie Hudson

Valerie A. Hudson, P.E.
Process Manager - Environmental Systems

cc: Edd Frazier, DAQ - Permit Review Branch
Clay Redmond, DAQ - Florence Regional Office
Joe Cooksey, Ambient Air Services, Inc.