PART 60 CO
RELATIVE ACCURACY
TEST REPORT
FOR
ST. JOHNS RIVER POWER PARK
UNITS 1 & 2 STACK & INLET
JACKSONVILLE, FL
December 12 & 13, 2001

Job # 01-315

Test Report Date: 1-25-02

GRACE CONSULTING, INC.
EMISSIONS TESTING SERVICES

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January 25, 2002

I, Hal Stiles, hereby certify that the data obtained for St. Johns River Power Park, Units 1 & 2 Stack & Inlet in Jacksonville, FL are in accordance with procedures set forth by the USEPA. This report accurately represents the data obtained from the testing procedures and analysis of this data.

Hal Stiles
Crew Chief

I, Carl Vineyard, hereby certify that I have reviewed this report and to the best of my knowledge, the data presented herein is complete and accurate.

Carl Vineyard, P.E.
Test Engineer

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INTRODUCTION

This report presents the results of the Relative Accuracy tests performed for St. Johns River Power Park, Units 1 & 2 Stack & Inlet in Jacksonville, FL.

The purpose of the tests was to determine the emissions of the units. The results can be found in the Summary of Test Results section of this report.

The testing was performed by Grace Consulting, Inc., located at 510 Dickson Street – Wellington, OH 44090. Present during the testing were Hal Stiles, Tim Moody, Josh Nichols, and Ernie Givens from Grace Consulting, Inc. Mark Loechelt was present from St. Johns River Power Park.

The tests were performed on December 12 & 13, 2001. The testing was completed in accordance with USEPA test methods as published in the July 1, 2001 Federal Register, - "Standards of Performance for New Stationary Sources" and subsequent revisions.

The sampling and analytical procedures can be found in the Sampling and Analytical Procedures section of this report. The raw field data and the equations used to determine the final results are presented in the Appendix section.

SUMMARY OF TEST RESULTS

The following presents the results of the Relative Accuracy tests performed for St. Johns River Power Park, Units 1 & 2 Stack and Inlet in Jacksonville, FL.

PART 60 RELATIVE ACCURACY
Unit 1

Date	Monitor	Location	Units	RA	Allowable	Results	MW
12-13-01	CO	Stack	ppm	3.81%	20%	Pass	662.2
12-13-01	CO	Stack	lb/mmBtu	3.81%	20%	Pass	662.2
12-13-01	CO_2	Stack	Percent	2.21%	20%	Pass	662.2

Unit 2

Date	Monitor	Location	Units	RA	Allowable	Results	MW
12-12-01	CO	Stack	ppm	3.37%	20%	Pass	650.9
12-12-01	CO	Stack	lb/mmBtu	5.02%	20%	Pass	650.9
12-12-01	CO_2	Stack	Percent	1.95%	20%	Pass	650.9

The complete results can be found on the computer printouts following.

Grace Consulting, Inc.

St. Johns River Power Park: Jacksonville, FL Unit 1
Relative Accuracy Test Audit
Relative Accuracy Calculations and Results
CO ppm
12/13/01

Use	Run	CO ppm RM	CO ppm CEMS	CO ppm Difference
Y	1	88.134	96.600	-8.466
Y	2	135.911	141.700	-5.789
Y	3	148.535	149.100	-0.565
Y	4	160.258	162.600	-2.342
Y	5	153.520	157.900	-4.380
Y	6	107.125	116.200	-9.075
Y	7	250.105	244.500	5.605
N	8	195.678	213.800	-18.122
Y	9	196.260	194.200	2.060
Y	10	221.068	215.800	5.268
N	11	0.000	0.000	0.000
N	12	0.000	0.000	0.000
Averages		162.324	164.289	-1.965

Standard Deviation	5.491
Confidence Coefficient	4.221
Relative Accuracy	3.81

Grace Consulting, Inc.

St. Johns River Power Park: Jacksonville, FL Unit 1
Relative Accuracy Test Audit
Relative Accuracy Calculations and Results
CO lb/mmBtu
12/13/01

Use	Run	CO lb/mmBtu RM	CEMS	Difference
Y	1	0.097	0.108	-0.011
Y	2	0.153	0.157	-0.004
Y	3	0.168	0.166	0.002
Y	4	0.181	0.180	0.001
Y	5	0.173	0.176	-0.003
Y	6	0.121	0.129	-0.008
Y	7	0.282	0.272	0.010
N	8	0.220	0.237	-0.017
Y	9	0.223	0.216	0.007
Y	10	0.252	0.239	0.013
N	11	0.000	0.000	0.000
N	12	0.000	0.000	0.000
Averages		0.183	0.183	0.001

Standard Deviation	0.008
Confidence Coefficient	0.006
Relative Accuracy	3.81

Grace Consulting, Inc.

St. Johns River Power Park: Jacksonville, FL Unit 1
Relative Accuracy Test Audit
Relative Accuracy Calculations and Results
CO2 Percent
12/13/01

Use	Run	CO2 Percent RM	CEMS	Difference
N	1	11.893	11.740	0.153
Y	2	11.644	11.790	-0.146
Y	3	11.541	11.760	-0.219
Y	4	11.575	11.760	-0.185
Y	5	11.607	11.750	-0.143
Y	6	11.599	11.830	-0.231
Y	7	11.575	11.800	-0.225
Y	8	11.608	11.800	-0.192
Y	9	11.510	11.780	-0.270
Y	10	11.478	11.790	-0.312
N	11	0.000	0.000	0.000
N	12	0.000	0.000	0.000
Averages		11.571	11.784	-0.214

Standard Deviation	0.055
Confidence Coefficient	0.042
Relative Accuracy	2.21

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SJRPP: Jacksonville, FL Unit 2
Relative Accuracy Test Audit
Relative Accuracy Calculations and Results
CO ppm
12/12/01

Use	Run	CO ppm RM	CO ppm CEMS	Difference
Y	1	400.442	393.100	7.342
Y	2	408.633	426.900	-18.267
Y	3	412.402	426.400	-13.998
Y	4	388.974	403.600	-14.626
Y	5	435.131	446.700	-11.569
Y	6	501.230	494.800	6.430
Y	7	368.115	379.300	-11.185
Y	8	413.159	409.400	3.759
N	9	309.647	331.900	-22.253
Y	10	393.740	399.200	-5.460
N	11	0.000	0.000	0.000
N	12	0.000	0.000	0.000
Averages		413.536	419.933	-6.397

Standard Deviation	9.832
Confidence Coefficient	7.558
Relative Accuracy	3.37

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SJRPP: Jacksonville, FL Unit 2
Relative Accuracy Test Audit
Relative Accuracy Calculations and Results
CO lb/mmBtu
12/12/01

Use	Run	CO lb/mmBtu RM	CEMS	Difference
Y	1	0.444	0.443	0.001
Y	2	0.452	0.477	-0.025
Y	3	0.459	0.480	-0.021
Y	4	0.431	0.452	-0.021
Y	5	0.483	0.503	-0.020
Y	6	0.554	0.570	-0.016
Y	7	0.407	0.433	-0.026
Y	8	0.456	0.460	-0.004
N	9	0.344	0.374	-0.030
Y	10	0.437	0.448	-0.011
N	11	0.000	0.000	0.000
N	12	0.000	0.000	0.000
Averages		0.458	0.474	-0.016

Standard Deviation	0.009
Confidence Coefficient	0.007
Relative Accuracy	5.02

Grace Consulting, Inc.

SJRPP: Jacksonville, FL Unit 2
Relative Accuracy Test Audit
Relative Accuracy Calculations and Results
CO2 Percent
12/12/01

Use	Run	CO2 Percent RM	CEMS	Difference
Y	1	11.781	11.610	0.171
Y	2	11.807	11.700	0.107
Y	3	11.729	11.640	0.089
Y	4	11.785	11.650	0.135
Y	5	11.782	11.620	0.162
N	6	11.827	11.340	0.487
Y	7	11.819	11.460	0.359
Y	8	11.834	11.610	0.224
Y	9	11.774	11.630	0.144
Y	10	11.772	11.680	0.092
N	11	0.000	0.000	0.000
N	12	0.000	0.000	0.000
Averages		11.787	11.622	0.165

Standard Deviation	0.085
Confidence Coefficient	0.065
Relative Accuracy	1.95

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Sampling System Bias Check and Measured Value Correction

St.Johns River Power Park
Jacksonville, FL - Unit 1 Outlet

Date: 12/13/2001
Pollutant: CO
Monitor Span: 1000

Run Number	Average Measured Value	Initial Zero Gas Bias	Final Zero Gas Bias	Zero Gas Drift	Initial Upscale Gas Bias	Final Upscale Gas Bias	Upscale Gas Drift	Calibration Gas	Percent Moisture	Corrected Value, Dry Basis	Corrected Value, Wet Basis
1	101.20	0.20	0.30	0.01	308.00	307.00	-0.10	304.00	11.76	99.88	88.13
2	155.40	0.30	0.50	0.02	307.00	306.00	-0.10	304.00	11.71	153.94	135.91
3	168.80	0.50	0.40	-0.01	306.00	304.00	-0.20	304.00	11.61	168.05	148.54
4	183.00	0.40	0.50	0.01	304.00	308.00	0.40	304.00	11.76	181.62	160.26
5	175.90	0.50	0.80	0.03	308.00	306.50	-0.15	304.00	11.65	173.76	153.52
6	122.30	0.80	0.60	-0.02	306.50	305.00	-0.15	304.00	11.60	121.18	107.13
7	284.90	0.60	0.60	0.00	305.00	307.50	0.25	304.00	11.55	282.77	250.10
8	224.20	0.60	0.00	-0.06	307.50	309.00	0.15	304.00	11.47	221.03	195.68
9	223.20	0.00	0.00	0.00	309.00	302.00	-0.70	304.00	11.64	222.10	196.26
10	250.30	0.00	-0.20	-0.02	302.00	306.00	0.40	304.00	11.68	250.32	221.07

$$Cgas = (Cavg - Co) * Cma / (Cm - Co) \qquad \text{Eq. 6C-1}$$

where:

Cgas = Effluent gas concentration, dry basis, ppm
Cavg = Average gas concentraiton indicated by gas analyzer, dry basis, ppm
Co = Average of initial and final system calibration bias check responses for the zero gas, ppm
Cm = Average of initial and final system calibration bias check responses for the upscale calibration gas, ppm
Cma = Actual concentration of the upscale calibration gas, ppm

Grace Consulting, Inc.

Sampling System Bias Check and Measured Value Correction

St.Johns River Power Park
Jacksonville, FL - Unit 1 Outlet

Date: 12/13/2001
Pollutant: CO2
Monitor Span: 20

Run Number	Average Measured Percent	Initial Zero Gas Bias	Final Zero Gas Bias	Zero Gas Drift	Initial Upscale Gas Bias	Final Upscale Gas Bias	Upscale Gas Drift	Calibration Gas	Percent Moisture	Corrected Percent, Dry Basis	Corrected Percent, Wet Basis
1	13.43	0.23	0.45	1.10	11.04	11.20	0.80	11.10	11.76	13.48	11.89
2	13.27	0.45	0.51	0.30	11.20	11.29	0.45	11.10	11.71	13.19	11.64
3	13.19	0.51	0.52	0.05	11.29	11.29	0.00	11.10	11.61	13.06	11.54
4	13.20	0.52	0.59	0.35	11.29	11.22	-0.35	11.10	11.76	13.12	11.57
5	13.17	0.59	0.54	-0.25	11.22	11.21	-0.05	11.10	11.65	13.14	11.61
6	13.17	0.54	0.48	-0.30	11.21	11.23	0.10	11.10	11.60	13.12	11.60
7	13.16	0.48	0.54	0.30	11.23	11.25	0.10	11.10	11.55	13.09	11.57
8	13.17	0.54	0.51	-0.15	11.25	11.21	-0.20	11.10	11.47	13.11	11.61
9	13.08	0.51	0.49	-0.10	11.21	11.23	0.10	11.10	11.64	13.03	11.51
10	13.11	0.49	0.45	-0.20	11.23	11.30	0.35	11.10	11.68	13.00	11.48

$$Cgas = (Cavg - Co) * Cma / (Cm - Co) \qquad \text{Eq. 6C-1}$$

where:

Cgas = Effluent gas concentration, dry basis, percent
Cavg = Average gas concentraiton indicated by gas analyzer, dry basis, percent
Co = Average of initial and final system calibration bias check responses for the zero gas, percent
Cm = Average of initial and final system calibration bias check responses for the upscale calibration gas, percent
Cma = Actual concentration of the upscale calibration gas, percent

Grace Consulting, Inc.
Moisture Calculations (Runs 1 - 6)

Client: St.Johns River Power Park
Site: Jacksonville, FL - Unit 1 Outlet
Date: 12/13/01
Unit Number: 1 Outlet

Run:	1	2	3
Volume of Condensate:	48.60	48.10	47.70
Weight of Silica Gel:	14.10	14.30	14.10
Volume Metered:	22.483	22.489	22.488
Meter Temperature:	94.00	94.00	94.00
Delta H:	1.80	1.80	1.80
Barometric Pressure:	30.29	30.29	30.29
Meter Correction Factor:	1.017	1.017	1.017
Volume Measured (DSCF):	22.15	22.15	22.15
Water Volume (SCF):	2.95	2.94	2.91
% Moisture in Flue Gas:	11.76	11.71	11.61

Run:	4	5	6
Volume of Condensate:	48.90	47.60	47.50
Weight of Silica Gel:	13.80	14.30	14.10
Volume Metered:	22.479	22.478	22.480
Meter Temperature:	94.00	95.00	95.00
Delta H:	1.80	1.80	1.80
Barometric Pressure:	30.29	30.29	30.29
Meter Correction Factor:	1.017	1.017	1.017
Volume Measured (DSCF):	22.15	22.10	22.11
Water Volume (SCF):	2.95	2.91	2.90
% Moisture in Flue Gas:	11.76	11.65	11.60

Grace Consulting, Inc.
Moisture Calculations (Runs 7 - 10)

Client: St.Johns River Power Park
Site: Jacksonville, FL - Unit 1 Outlet
Date: 12/13/01
Unit Number: 1 Outlet

Run:	7	8	9
Volume of Condensate:	47.10	46.90	47.60
Weight of Silica Gel:	14.20	13.80	14.10
Volume Metered:	22.478	22.476	22.477
Meter Temperature:	95.00	96.00	96.00
Delta H:	1.80	1.80	1.80
Barometric Pressure:	30.29	30.29	30.29
Meter Correction Factor:	1.017	1.017	1.017
Volume Measured (DSCF):	22.10	22.06	22.06
Water Volume (SCF):	2.89	2.86	2.91
% Moisture in Flue Gas:	11.55	11.47	11.64

Run:	10
Volume of Condensate:	48.30
Weight of Silica Gel:	13.70
Volume Metered:	22.479
Meter Temperature:	96.00
Delta H:	1.80
Barometric Pressure:	30.29
Meter Correction Factor:	1.017
Volume Measured (DSCF):	22.07
Water Volume (SCF):	2.92
% Moisture in Flue Gas:	11.68

Grace Consulting, Inc.

Sampling System Bias Check and Measured Value Correction

St. Johns River Power Park
Jacksonville, FL - Unit 2

Date: 12/12/01
Pollutant: CO
Monitor Span: 1000

Run Number	Average Measured Value	Initial Zero Gas Bias	Final Zero Gas Bias	Zero Gas Drift	Initial Upscale Gas Bias	Final Upscale Gas Bias	Upscale Gas Drift	Calibration Gas	Percent Moisture	Corrected Value, Dry Basis	Corrected Value, Wet Basis
1	454.50	0.70	1.20	0.05	308.00	302.00	-0.60	304.00	11.69	453.48	400.44
2	461.80	1.20	0.70	-0.05	302.00	307.00	0.50	304.00	11.46	461.53	408.63
3	468.80	0.70	1.00	0.03	307.00	305.00	-0.20	304.00	11.54	466.19	412.40
4	442.30	1.00	2.60	0.16	305.00	308.00	0.30	304.00	11.49	439.49	388.97
5	492.90	2.60	0.60	-0.20	308.00	303.00	-0.50	304.00	11.46	491.46	435.13
6	564.50	0.60	1.30	0.07	303.00	304.90	0.19	304.00	11.35	565.41	501.23
7	415.70	1.30	2.30	0.10	304.90	304.80	-0.01	304.00	11.34	415.20	368.12
8	470.50	2.30	0.30	-0.20	304.80	308.00	0.32	304.00	11.63	467.51	413.16
9	352.00	0.30	0.00	-0.03	308.00	303.00	-0.50	304.00	11.60	350.29	309.65
10	444.65	0.00	0.00	0.00	303.00	304.00	0.10	304.00	11.60	445.38	393.74

$$Cgas = (Cavg - Co) * Cma / (Cm - Co) \qquad \text{Eq. 6C-1}$$

where: Cgas = Effluent gas concentration, dry basis, ppm

for the zero gas, ppm

for the upscale calibration gas, ppm

Cma = Actual concentration of the upscale calibration gas, ppm

Grace Consulting, Inc.

Sampling System Bias Check and Measured Value Correction

St. Johns River Power Park
Jacksonville, FL - Unit 2

Date: 12/12/01
Pollutant: CO2
Monitor Span: 20

Run Number	Average Measured Percent	Initial Zero Gas Bias	Final Zero Gas Bias	Zero Gas Drift	Initial Upscale Gas Bias	Final Upscale Gas Bias	Upscale Gas Drift	Calibration Gas	Percent Moisture	Corrected Percent, Dry Basis	Corrected Percent, Wet Basis
1	13.53	0.35	0.40	0.25	11.24	11.40	0.80	11.10	11.69	13.34	11.78
2	13.62	0.40	0.35	-0.25	11.40	11.40	0.00	11.10	11.46	13.34	11.81
3	13.54	0.35	0.44	0.45	11.40	11.40	0.00	11.10	11.54	13.26	11.73
4	13.59	0.44	0.42	-0.10	11.40	11.40	0.00	11.10	11.49	13.32	11.79
5	13.60	0.42	0.37	-0.25	11.40	11.42	0.10	11.10	11.46	13.31	11.78
6	13.62	0.37	0.38	0.05	11.42	11.37	-0.25	11.10	11.35	13.34	11.83
7	13.57	0.38	0.47	0.45	11.37	11.37	0.00	11.10	11.34	13.33	11.82
8	13.61	0.47	0.44	-0.15	11.37	11.35	-0.10	11.10	11.63	13.39	11.83
9	13.55	0.44	0.44	0.00	11.35	11.38	0.15	11.10	11.60	13.32	11.77
10	13.56	0.44	0.36	-0.40	11.38	11.36	-0.10	11.10	11.60	13.32	11.77

$$Cgas = (Cavg - Co) * Cma / (Cm - Co) \qquad \text{Eq. 6C-1}$$

where:
Cgas = Effluent gas concentration, dry basis, percent
Cavg = Average gas concentraiton indicated by gas analyzer, dry basis, percent

for the zero gas, percent

for the upscale calibration gas, percent
Cma = Actual concentration of the upscale calibration gas, percent

Grace Consulting, Inc.
Moisture Calculations (Runs 1 - 6)

Client: St.Johns River Power Park
Site: Jacksonville, FL - Unit 2
Date: 12/12/01
Unit Number: 2
Load: High

Run:	1	2	3
Volume of Condensate:	47.80	47.10	46.30
Weight of Silica Gel:	14.90	13.80	14.20
Volume Metered:	22.483	22.482	22.210
Meter Temperature:	91.50	95.00	96.00
Delta H:	1.80	1.80	1.80
Barometric Pressure:	30.35	30.35	30.35
Meter Correction Factor:	1.017	1.017	1.017
Volume Measured (DSCF):	22.29	22.15	21.84
Water Volume (SCF):	2.95	2.87	2.85
% Moisture in Flue Gas:	11.69	11.46	11.54

Run:	4	5	6
Volume of Condensate:	47.20	47.30	46.80
Weight of Silica Gel:	13.90	13.50	14.10
Volume Metered:	22.485	22.485	22.484
Meter Temperature:	95.00	96.00	89.00
Delta H:	1.80	1.80	1.80
Barometric Pressure:	30.35	30.35	30.35
Meter Correction Factor:	1.017	1.017	1.017
Volume Measured (DSCF):	22.15	22.11	22.40
Water Volume (SCF):	2.88	2.86	2.87
% Moisture in Flue Gas:	11.49	11.46	11.35

Grace Consulting, Inc.
Moisture Calculations (Runs 7 - 12)

Client: St. Johns River Power Park
Site: Jacksonville, FL - Unit 2
Date: 12/12/01
Unit Number: 2
Load: High

Run:	7	8	9
Volume of Condensate:	46.30	47.30	48.20
Weight of Silica Gel:	14.20	14.60	13.40
Volume Metered:	22.484	22.448	22.466
Meter Temperature:	92.00	94.00	96.00
Delta H:	1.80	1.80	1.80
Barometric Pressure:	30.35	30.35	30.35
Meter Correction Factor:	1.017	1.017	1.017
Volume Measured (DSCF):	22.27	22.16	22.10
Water Volume (SCF):	2.85	2.91	2.90
% Moisture in Flue Gas:	11.34	11.63	11.60

Run:	10
Volume of Condensate:	47.20
Weight of Silica Gel:	14.30
Volume Metered:	22.449
Meter Temperature:	96.00
Delta H:	1.80
Barometric Pressure:	30.35
Meter Correction Factor:	1.017
Volume Measured (DSCF):	22.08
Water Volume (SCF):	2.90
% Moisture in Flue Gas:	11.60

Test Methods used at St. Johns River Power Park, Units 1 & 2

Method 3A

CO_2 and O_2 concentrations were determined with 10 Method 3A test runs on Units 1 & 2. The sampling was performed at 3-points. GCI used a monitor range of 0-20% for CO_2 and a range of 0-25% for O_2.

Method 10

CO emissions were determined with 10 test runs on Units 1 & 2. The sampling was performed at 3-points. GCI used a monitor span of 1000 ppm for CO testing on both Unit 1 and Unit 2.

APPENDIX

CO CALCULATION
(CO_2 Based)

lb/dscf = $.726 \times 10^{-7} \times PPM$

lb/mmBtu = lb/dscf x f-factor x $\frac{100}{\%CO_2}$

lb/hour = lb/dscf x dscfm x 60 min./hr

The following is used to convert ppm dry to ppm wet.

$$\text{ppm dry} \times \left(1 - \frac{\%\ moisture}{100}\right) = \text{ppm wet}$$

Calculate the arithmetic mean of the differences, d, of a data set as follows:

$$\overline{d} = \frac{1}{n}\sum_{i=1}^{n} d_i$$

Where:

n = Number of data points

$\sum_{i=1}^{n} d_i$ = Algebraic sum of the individual differences d_i

d_i = The difference between a reference method value and the corresponding continuous emissions monitoring system value (RM_i-CEM_i) at a given point in time i.

When calculating the arithmetic mean of the difference of a flow monitor data set, be sure to correct the monitor measurements fro moisture if applicable.

Calculate the confidence coefficient (one-tailed), CC, of a data set as follows:

$$CC = t0.025 \frac{S_d}{\sqrt{n}}$$

Where:

$t_{0.025}$ = t value (see Table 7-1).

TABLE 7-1 T-VALUES

n-1	$t_{0.025}$	n-1	$t_{0.025}$	n-1	$t_{0.025}$
1	12.076	12	2.179	23	2.069
2	4.303	13	2.160	24	2.064
3	3.182	14	2.145	25	2.060
4	2.775	15	2.131	26	2.056
5	2.571	16	2.120	27	2.052
6	2.447	17	2.110	28	2.048
7	2.365	18	2.101	29	2.045
8	2.306	19	2.093	30	2.042
9	2.262	20	2.086	40	2.021
10	2.228	21	2.080	60	2.000
11	2.201	22	2.074	>60	1.960

Calculate the standard deviation, S_d, of a data set as follows:

$$S_d = \sqrt{\frac{\sum_{i=1}^{n} d_i^{\,2} - \left[\frac{\left(\sum_{i=1}^{n} d_i\right)^2}{n}\right]}{n-1}}$$

The following equation is used to calculate the relative accuracy of a data set:

$$RA = \frac{|\overline{d}| + |cc|}{RM} \times 100$$

Where:

RM = Arithmetic mean of the reference method values.

$|\overline{d}|$ = The absolute value of the mean difference between the reference method values and the corresponding continuous emissions monitoring system values.

$|cc|$ = The absolute value of the confidence coefficient.

SAMPLING SYSTEM BIAS CORRECTION

EMISSION CALCULATION
(CFR 40, Part 60, Appendix A)

Eq. 6C-1

$$C_{gas} = \left(\overline{C} - C_o\right)\frac{C_{ma}}{C_m - C_o}$$

Where:

C_{gas} = Effluent gas concentration, dry basis, ppm.
$\overline{C}$ = Average gas concentration indicated by gas analyzer, dry basis, ppm.
C_o = Average of initial and final system calibration bias check responses for the zero gas, ppm.
C_m = Average of initial and final system calibration bias check responses for the upscale calibration gas, ppm.
C_{ma} = Actual concentration of the upscale calibration gas, ppm.

MOISTURE FIELD DATA SHEETS

CLIENT:	SJRPP	DATE:	12-13-01
PROJECT NO.:	01-315	OPERATOR:	Nichols
SAMPLING LOCATION:	Unit 1	METER-ORIFICE:	3:2978
BAROMETRIC PRESSURE:	30.29	METER CORR. FACTOR:	1.017 4A
SAMPLE PT. TIME:	5min	UNIT LOAD:	high PROBE NO:

LEAK CHECK: BEFORE .001@15in AFTER .001@5in

RUN NO.	1	SAMPLE POINT	DELTA H	PROBE TEMP.	IMP. OUT	METER IN	METER OUT	VAC. PR. (In. Hg)	DRY GAS VOLUME (Cu. Ft.)
				TEMPERATURE DEGREE FAHRENHEIT					~~253.520~~
START TIME	10:56	1	1.798	250	55	89	89	3	257.266
STOP TIME	11:26	2			56	93	89		261.013
SILICA GEL	14.1	3			57	98	90		264.761
CONDENSATE	48.6	4			58	100	90		268.509
		5			59	102	91		272.255
		6	↓	↓	60	103	91	↓	276.003
AVG.							94		22.483

LEAK CHECK: BEFORE .001@15in AFTER .001@5in

RUN NO.	2	SAMPLE POINT	DELTA H	PROBE TEMP.	IMP. OUT	METER IN	METER OUT	VAC. PR. (In. Hg)	DRY GAS VOLUME (Cu. Ft.)
				TEMPERATURE DEGREE FAHRENHEIT					~~276.200~~
START TIME	11:35	1	1.798	250	55	91	89	3	279.945
STOP TIME	12:05	2			56	93	90		283.697
SILICA GEL	14.3	3			58	97	90		287.444
CONDENSATE	48.1	4			59	101	91		291.193
		5			60	103	91		294.941
		6			61	103	91	↓	298.689
				↓					
AVG.							94		22.489

LEAK CHECK: BEFORE .001@15in AFTER .001@5in

RUN NO.	3	SAMPLE POINT	DELTA H	PROBE TEMP.	IMP. OUT	METER IN	METER OUT	VAC. PR. (In. Hg)	DRY GAS VOLUME (Cu. Ft.)
				TEMPERATURE DEGREE FAHRENHEIT					~~298.800~~
START TIME	12:11	1	1.798	250	54	90	89	3	~~298.297~~ 302.54
STOP TIME	12:41	2			55	93	90		~~302.~~ 306.2
SILICA GEL	14.1	3			56	96	90		310.045
CONDENSATE	47.7	4			57	100	90		313.793
		5			58	102	90		317.541
		6	↓	↓	59	103	90	↓	321.288
AVG.							94		22.488

MOISTURE FIELD DATA SHEETS

CLIENT:	SJRPP	DATE:	12-13-01
PROJECT NO.:	01-315	OPERATOR:	Nichols
SAMPLING LOCATION:	Unit 1	METER-ORIFICE:	3.2978
BAROMETRIC PRESSURE:	30.29	METER CORR. FACTOR:	1.017
SAMPLE PT. TIME:	5min	UNIT LOAD: high	PROBE NO:

LEAK CHECK: BEFORE .001@ 15 AFTER .001@ 4in

RUN NO.	4	SAMPLE POINT	DELTA H	PROBE TEMP.	IMP. OUT	METER IN	METER OUT	VAC. PR. (In. Hg)	DRY GAS VOLUME (Cu. Ft.)
					TEMPERATURE DEGREE FAHRENHEIT				DRY GAS VOLUME (Cu. Ft.)
									meter reading 321.400
START TIME	12:49	1	1.798	250	54	91	90	3	325.148
STOP TIME	1:19	2			55	94	90		328.894
SILICA GEL	13.6	3			56	98	90		332.640
CONDENSATE	48.9	4			57	101	91		336.385
		5			59	102	91		340.132
		6			60	104	91		343.879
AVG.							94		22.479

LEAK CHECK: BEFORE AFTER

RUN NO.	5	SAMPLE POINT	DELTA H	PROBE TEMP.	IMP. OUT	METER IN	METER OUT	VAC. PR. (In. Hg)	DRY GAS VOLUME (Cu. Ft.)
					TEMPERATURE DEGREE FAHRENHEIT				DRY GAS VOLUME (Cu. Ft.)
									meter reading 344,000
START TIME	13:06	1	1.798	256	55	91	90	3	347.746
STOP TIME	13:56	2			56	94	90		351.493
SILICA GEL	14.3	3			57	98	90		355.239
CONDENSATE	47.6	4			58	101	91		358.985
		5			59	103	92		362.732
		6			61	104	92		366.478
AVG.							95		22.478

LEAK CHECK: BEFORE AFTER

RUN NO.	6	SAMPLE POINT	DELTA H	PROBE TEMP.	IMP. OUT	METER IN	METER OUT	VAC. PR. (In. Hg)	DRY GAS VOLUME (Cu. Ft.)
					TEMPERATURE DEGREE FAHRENHEIT				DRY GAS VOLUME (Cu. Ft.)
									meter reading 366.600
START TIME	14:13	1	1.798	250	55	91	90	3	370.347
STOP TIME	14:43	2			56	95	90		374.095
SILICA GEL	14.1	3			57	99	91		377.841
CONDENSATE	47.5	4			58	101	91		381.587
		5			59	103	91		385.334
		6			60	105	91		389.080
AVG.							95		22.480

MOISTURE FIELD DATA SHEETS

CLIENT: SJBPD	DATE: 12-13-01
PROJECT NO.: 01-315	OPERATOR: Nichols
SAMPLING LOCATION: Unit 1	METER-ORIFICE: 3.2978
BAROMETRIC PRESSURE: 30.29	METER CORR. FACTOR: 1.017
SAMPLE PT. TIME: 5min	UNIT LOAD: high PROBE NO:

LEAK CHECK: BEFORE .001@15in AFTER .001@5in

RUN NO.	7	SAMPLE POINT	DELTA H	PROBE TEMP.	IMP. OUT	METER IN	METER OUT	VAC. PR. (In. Hg)	DRY GAS VOLUME (Cu. Ft.)
				TEMPERATURE DEGREE FAHRENHEIT					ENTRY READING 389.200
START TIME	14:54	1	1.798	250	55	91	90	3	392.946
STOP TIME	15:24	2			56	95	91		396.692
SILICA GEL	14.2	3			57	98	91		400.438
CONDENSATE	47.1	4			58	102	91		404.184
		5			59	104	91		407.931
		6			61	105	92		411.678
AVG.							95		22.478

LEAK CHECK: BEFORE .001@15in AFTER .001@5in

RUN NO.	8	SAMPLE POINT	DELTA H	PROBE TEMP.	IMP. OUT	METER IN	METER OUT	VAC. PR. (In. Hg)	DRY GAS VOLUME (Cu. Ft.)
				TEMPERATURE DEGREE FAHRENHEIT					ENTRY READING 411.800
START TIME	15:33	1	1.798	250	55	93	92	3	415.546
STOP TIME	16:03	2			57	97	92		419.292
SILICA GEL	13.8	3			58	100	92		423.039
CONDENSATE	46.9	4			60	101	93		426.784
		5			61	104	93		430.530
		6			62	105	93		434.276
AVG.							96		22.476

LEAK CHECK: BEFORE .001@15in AFTER .001@5in

RUN NO.	9	SAMPLE POINT	DELTA H	PROBE TEMP.	IMP. OUT	METER IN	METER OUT	VAC. PR. (In. Hg)	DRY GAS VOLUME (Cu. Ft.)
				TEMPERATURE DEGREE FAHRENHEIT					ENTRY READING 434.400
START TIME	16:18	1	1.798	250	55	93	92	3	438.147
STOP TIME	16:48	2			56	98	92		441.893
SILICA GEL	14.1	3			57	100	92		445.638
CONDENSATE	47.6	4			58	101	93		449.383
		5			59	104	93		453.128
		6			60	106	94		456.877
AVG.							96		22.477

MOISTURE FIELD DATA SHEETS

CLIENT:	SJRPP	DATE:	12-13-01
PROJECT NO.:	01-315	OPERATOR:	Nichols
SAMPLING LOCATION:	Unit 1	METER-ORIFICE:	3.2978
BAROMETRIC PRESSURE:	30.29	METER CORR. FACTOR:	1.017
SAMPLE PT. TIME:	5min	UNIT LOAD:	high
		PROBE NO:	

LEAK CHECK: BEFORE .001@15in AFTER .001@5in

RUN NO.	10	SAMPLE POINT	DELTA H	TEMPERATURE DEGREE FAHRENHEIT: PROBE TEMP.	IMP. OUT	METER IN	METER OUT	VAC. PR. (In. Hg)	DRY GAS VOLUME (Cu. Ft.)
									BEFORE READING 457.000
START TIME	16:56	1	1.798	250	55	93	92	3	460.746
STOP TIME	17:26	2			56	97	92		464.494
SILICA GEL	13.7	3			57	101	93		468.241
CONDENSATE	48.3	4			58	103	93		471.989
		5			59	104	94		475.733
		6			61	106	94		479.479
AVG.							96		22.479

LEAK CHECK: BEFORE AFTER

RUN NO.		SAMPLE POINT	DELTA H	TEMPERATURE DEGREE FAHRENHEIT: PROBE TEMP.	IMP. OUT	METER IN	METER OUT	VAC. PR. (In. Hg)	DRY GAS VOLUME (Cu. Ft.)
									BEFORE READING
START TIME									
STOP TIME									
SILICA GEL									
CONDENSATE									
AVG.									

LEAK CHECK: BEFORE AFTER

RUN NO.		SAMPLE POINT	DELTA H	TEMPERATURE DEGREE FAHRENHEIT: PROBE TEMP.	IMP. OUT	METER IN	METER OUT	VAC. PR. (In. Hg)	DRY GAS VOLUME (Cu. Ft.)
									BEFORE READING
START TIME									
STOP TIME									
SILICA GEL									
CONDENSATE									
AVG.									

Test Run 1 Begin. STRATA Version 2.0
Operator: hal stiles
Plant Name: St.Johns River Power Park
Location: Unit 1 high load

		CO2 %	CO ppm
Start Averaging			
12/13/01	10:57:11	13.59	95.10
12/13/01	10:58:10	13.37	104.60
12/13/01	10:59:10	13.39	121.10
12/13/01	11:00:11	13.44	125.70
12/13/01	11:01:11	13.37	115.00
12/13/01	11:02:10	13.38	64.70
12/13/01	11:03:10	13.43	90.70
12/13/01	11:04:11	13.45	75.30
12/13/01	11:05:11	13.47	81.40
12/13/01	11:06:10	13.55	151.30
12/13/01	11:07:10	13.47	127.10
12/13/01	11:08:11	13.30	46.80
12/13/01	11:09:11	13.46	54.40
12/13/01	11:10:10	13.48	218.60
12/13/01	11:11:09	13.33	103.40
12/13/01	11:12:11	13.39	89.80
12/13/01	11:13:11	13.56	92.00
12/13/01	11:14:10	13.35	112.50
12/13/01	11:15:09	13.37	104.80
12/13/01	11:16:11	13.42	85.30
12/13/01	11:17:10	13.44	67.00
Test Run 1 End			
Average	572 samples	13.43	101.20

Test Run 2 Begin. STRATA Version 2.0
Operator: hal stiles
Plant Name: St.Johns River Power Park
Location: Unit 1 high load

		CO2 %	CO ppm
Start Averaging			
12/13/01	11:36:05	13.13	123.20
12/13/01	11:37:07	13.14	139.20
12/13/01	11:38:06	13.22	108.60
12/13/01	11:39:06	13.24	271.30
12/13/01	11:40:05	13.08	141.30
12/13/01	11:41:07	13.20	216.40
12/13/01	11:42:06	13.28	169.70
12/13/01	11:43:06	13.18	108.70
12/13/01	11:44:05	13.23	133.40
12/13/01	11:45:07	13.31	177.10
12/13/01	11:46:06	13.33	120.90
12/13/01	11:47:06	13.32	203.20
12/13/01	11:48:05	13.36	167.70
12/13/01	11:49:07	13.33	283.70
12/13/01	11:50:06	13.29	294.10
12/13/01	11:51:06	13.30	103.90
12/13/01	11:52:05	13.40	116.00
12/13/01	11:53:07	13.39	145.60
12/13/01	11:54:06	13.26	92.00
12/13/01	11:55:06	13.23	54.40
12/13/01	11:56:07	13.36	91.80
Test Run 2 End			
Average	572 samples	13.27	155.40

Test Run 3 Begin. STRATA Version 2.0
Operator: hal stiles
Plant Name: St.Johns River Power Park
Location: Unit 1 high load

		CO2 %	CO ppm
Start Averaging			
12/13/01	12:12:36	12.96	71.00
12/13/01	12:13:35	13.07	81.30
12/13/01	12:14:36	13.03	204.80
12/13/01	12:15:35	13.09	178.80
12/13/01	12:16:37	13.14	239.70
12/13/01	12:17:36	13.21	183.50
12/13/01	12:18:35	13.34	151.70
12/13/01	12:19:36	13.18	128.00
12/13/01	12:20:35	13.05	126.20
12/13/01	12:21:36	13.15	83.90
12/13/01	12:22:35	13.22	205.10
12/13/01	12:23:36	13.32	141.50
12/13/01	12:24:35	13.28	88.40
12/13/01	12:25:36	13.27	194.20
12/13/01	12:26:35	13.24	251.70
12/13/01	12:27:36	13.37	241.70
12/13/01	12:28:35	13.15	165.80
12/13/01	12:29:36	13.31	266.00
12/13/01	12:30:35	13.21	233.40
12/13/01	12:31:36	13.19	135.50
12/13/01	12:32:35	13.22	167.80
Test Run 3 End			
Average	576 sampl	13.19	168.80

Test Run 4 Begin. STRATA Version 2.0
Operator: hal stiles
Plant Name: St.Johns River Power Park
Location: Unit 1 high load

		CO2 %	CO ppm
Start Averaging			
12/13/01	12:50:16	12.91	155.40
12/13/01	12:51:15	13.05	215.50
12/13/01	12:52:14	12.99	127.10
12/13/01	12:53:16	13.14	143.20
12/13/01	12:54:15	13.10	176.80
12/13/01	12:55:15	13.35	166.10
12/13/01	12:56:14	13.25	294.80
12/13/01	12:57:16	13.21	248.10
12/13/01	12:58:15	13.20	68.60
12/13/01	12:59:15	13.25	85.30
12/13/01	13:00:14	13.11	174.50
12/13/01	13:01:16	13.16	72.60
12/13/01	13:02:15	13.30	65.00
12/13/01	13:03:15	13.17	174.60
12/13/01	13:04:14	13.25	161.00
12/13/01	13:05:16	13.35	390.20
12/13/01	13:06:15	13.33	364.60
12/13/01	13:07:15	13.37	240.60
12/13/01	13:08:14	13.27	273.10
12/13/01	13:09:16	13.30	119.70
12/13/01	13:10:15	13.21	125.60
Test Run 4 End			
Average	573 samples	13.20	183.00

Test Run 5 Begin. STRATA Version 2.0
Operator: hal stiles
Plant Name: St.Johns River Power Park
Location: Unit 1 high load

		CO2 %	CO ppm
Start Averaging			
12/13/01	13:27:14	13.04	185.70
12/13/01	13:28:14	12.98	211.00
12/13/01	13:29:15	12.97	166.30
12/13/01	13:30:15	13.02	115.00
12/13/01	13:31:14	13.15	225.40
12/13/01	13:32:13	13.29	162.20
12/13/01	13:33:15	13.15	387.50
12/13/01	13:34:15	13.09	231.20
12/13/01	13:35:14	13.18	72.10
12/13/01	13:36:13	13.13	79.70
12/13/01	13:37:15	13.15	77.90
12/13/01	13:38:14	13.31	127.80
12/13/01	13:39:14	13.16	277.50
12/13/01	13:40:13	13.15	188.50
12/13/01	13:41:15	13.23	258.00
12/13/01	13:42:14	13.15	167.10
12/13/01	13:43:14	13.20	173.70
12/13/01	13:44:13	13.23	177.30
12/13/01	13:45:15	13.32	118.10
12/13/01	13:46:14	13.26	131.80
12/13/01	13:47:14	13.32	156.00
Test Run 5 End			
Average	572 samples	13.17	175.90

Test Run 6 Begin. STRATA Version 2.0
Operator: hal stiles
Plant Name: St.Johns River Power Park
Location: Unit 1 high load

		CO2 %	CO ppm
Start Averaging			
12/13/01	14:14:12	13.05	173.80
12/13/01	14:15:13	13.06	211.70
12/13/01	14:16:13	13.05	151.00
12/13/01	14:17:12	13.05	88.80
12/13/01	14:18:12	13.07	51.20
12/13/01	14:19:13	13.18	50.50
12/13/01	14:20:13	13.15	173.50
12/13/01	14:21:12	13.07	149.50
12/13/01	14:22:12	13.15	78.40
12/13/01	14:23:13	13.14	75.50
12/13/01	14:24:13	13.23	94.90
12/13/01	14:25:12	13.30	136.60
12/13/01	14:26:12	13.21	109.10
12/13/01	14:27:13	13.31	138.10
12/13/01	14:28:13	13.12	115.00
12/13/01	14:29:12	13.15	63.50
12/13/01	14:30:12	13.32	114.20
12/13/01	14:31:13	13.31	155.00
12/13/01	14:32:13	13.19	134.80
12/13/01	14:33:12	13.15	147.50
12/13/01	14:34:14	13.25	152.90
Test Run 6 End			
Average	573 samples	13.17	122.30

Test Run 7 Begin. STRATA Version 2.0
Operator: hal stiles
Plant Name: St.Johns River Power Park
Location: Unit 1 high load

		CO2 %	CO ppm
Start Averaging			
12/13/01	14:55:40	13.19	126.20
12/13/01	14:56:41	13.16	144.20
12/13/01	14:57:41	13.06	76.60
12/13/01	14:58:40	13.25	69.30
12/13/01	14:59:40	13.27	75.90
12/13/01	15:00:41	13.07	118.30
12/13/01	15:01:41	12.98	422.80
12/13/01	15:02:40	13.07	662.50
12/13/01	15:03:42	13.05	209.70
12/13/01	15:04:41	13.01	60.90
12/13/01	15:05:41	13.12	200.90
12/13/01	15:06:40	12.93	724.40
12/13/01	15:07:40	13.30	778.80
12/13/01	15:08:41	13.36	478.60
12/13/01	15:09:41	13.12	234.90
12/13/01	15:10:40	13.02	211.00
12/13/01	15:11:42	13.31	411.30
12/13/01	15:12:41	13.40	241.50
12/13/01	15:13:41	13.25	377.50
12/13/01	15:14:40	13.18	256.60
12/13/01	15:15:42	13.28	108.20
Test Run 7 End			
Average	573 samples	13.16	284.90

Test Run 8 Begin. STRATA Version 2.0
Operator: hal stiles
Plant Name: St.Johns River Power Park
Location: Unit 1 high load

		CO2 %	CO ppm
Start Averaging			
12/13/01	15:34:28	13.02	335.30
12/13/01	15:35:30	13.00	360.30
12/13/01	15:36:29	13.14	197.20
12/13/01	15:37:29	13.13	265.50
12/13/01	15:38:28	13.14	262.80
12/13/01	15:39:30	13.24	307.90
12/13/01	15:40:29	13.22	229.60
12/13/01	15:41:28	13.16	226.10
12/13/01	15:42:28	13.14	190.60
12/13/01	15:43:30	13.21	244.70
12/13/01	15:44:29	13.12	219.70
12/13/01	15:45:28	13.28	142.50
12/13/01	15:46:28	13.17	302.90
12/13/01	15:47:29	13.11	153.80
12/13/01	15:48:29	13.22	76.50
12/13/01	15:49:28	13.24	142.40
12/13/01	15:50:30	13.17	191.70
12/13/01	15:51:29	13.17	199.80
12/13/01	15:52:29	13.32	330.20
12/13/01	15:53:28	13.23	233.90
12/13/01	15:54:30	13.10	96.60
Test Run 8 End			
Average	573 samples	13.17	224.20

Test Run 9 Begin. STRATA Version 2.0
Operator: hal stiles
Plant Name: St.Johns River Power Park
Location: Unit 1 high load

		CO2 %	CO ppm
Start Averaging			
12/13/01	16:19:15	12.97	136.40
12/13/01	16:20:14	12.93	172.80
12/13/01	16:21:16	13.12	398.40
12/13/01	16:22:15	13.14	465.40
12/13/01	16:23:14	12.95	505.30
12/13/01	16:24:15	13.05	326.00
12/13/01	16:25:14	12.96	282.10
12/13/01	16:26:15	13.01	73.70
12/13/01	16:27:14	13.03	204.50
12/13/01	16:28:14	12.95	195.00
12/13/01	16:29:15	13.03	194.70
12/13/01	16:30:14	13.09	206.00
12/13/01	16:31:15	13.12	125.10
12/13/01	16:32:14	13.07	88.20
12/13/01	16:33:15	13.15	124.90
12/13/01	16:34:14	13.17	186.80
12/13/01	16:35:15	13.19	127.90
12/13/01	16:36:14	13.10	144.10
12/13/01	16:37:15	13.15	125.70
12/13/01	16:38:14	13.27	265.10
12/13/01	16:39:15	13.30	349.10
Test Run 9 End			
Average	577 sampl	13.08	223.20

Test Run 10 Begin. STRATA Version 2.0
Operator: hal stiles
Plant Name: St.Johns River Power Park
Location: Unit 1 high load

		CO2 %	CO ppm
Start Averaging			
12/13/01	16:57:09	13.01	240.10
12/13/01	16:58:08	13.01	214.00
12/13/01	16:59:07	13.01	136.40
12/13/01	17:00:08	13.02	213.10
12/13/01	17:01:07	12.98	180.80
12/13/01	17:02:09	12.94	130.10
12/13/01	17:03:08	12.97	120.20
12/13/01	17:04:09	13.19	214.50
12/13/01	17:05:08	13.21	343.00
12/13/01	17:06:09	13.20	445.30
12/13/01	17:07:08	13.20	396.60
12/13/01	17:08:07	13.24	386.00
12/13/01	17:09:08	13.15	311.10
12/13/01	17:10:07	13.15	265.70
12/13/01	17:11:08	13.12	272.50
12/13/01	17:12:09	13.15	194.00
12/13/01	17:13:08	13.09	174.80
12/13/01	17:14:09	13.02	212.90
12/13/01	17:15:08	13.22	192.90
12/13/01	17:16:09	13.31	282.10
12/13/01	17:17:08	13.17	328.50
Test Run 10 End			
Average	577 sampl	13.11	250.30

GRACE CONSULTING, INC.

MOISTURE DATA SHEET

Client: SJRPP	Date: 12-12-01
Project No.: 01-315	Operator: Nichols
Sampling Location: Unit 2	Run No.: 1 high
Barometric Pressure: 30.35	Probe Number:
Condensate: 47.5	Silica Gel: 14.9
Meter Corr. Factor: 1.017	Meter Orifice: 3.2978 / Meter #: 4A
Sample Pt. Time: 5min	Leak Test @ (in. HG): / After @(in. HG):

Sample Point		Delta H	Probe	Imp. Out	Meter In	Meter Out (.001@15in)	Vac. Pr (in. HG)	Dry Gas Meter Reading in Cu. Ft.
	Start Time							4.000
5	8:52	1.798	250	59	86	86	3	7.747
10				59	94	87		11.495
15				60	95	87		15.241
20				61	98	87		18.988
25				62	100	88		22.736
30				64	101	89		26.483
	Stop Time							
AVG.	9:22					91.5		22.483

MOISTURE FIELD DATA SHEETS

CLIENT:	SJRPP	DATE:	12-12-01
PROJECT NO.:	01-315	OPERATOR:	Nichols
SAMPLING LOCATION:	Unit 2	METER-ORIFICE:	3.2978
BAROMETRIC PRESSURE:	30.35	METER CORR. FACTOR:	1.017
SAMPLE PT. TIME:	5min	UNIT LOAD:	high
		PROBE NO:	

LEAK CHECK: BEFORE .001@15in AFTER .001@5in

				TEMPERATURE DEGREE FAHRENHEIT					DRY GAS VOLUME (Cu. Ft.)
RUN NO.	2	SAMPLE POINT	DELTA H	PROBE TEMP.	IMP. OUT	METER IN	METER OUT	VAC. PR. (In. Hg)	meter reading 26.505
START TIME	9:30	1	1.798	250	56	91	89	3	30.252
STOP TIME	10:00	2			57	100	89		33.990
SILICA GEL	13.8	3			57	102	89		37.745
CONDENSATE	47.1	4			58	103	90		41.492
		5			59	104	90		45.239
		6	↓	↓	61	105	91	↓	48.987
AVG.							95		22.482

LEAK CHECK: BEFORE .001@15in AFTER .002@4in

				TEMPERATURE DEGREE FAHRENHEIT					DRY GAS VOLUME (Cu. Ft.)
RUN NO.	3	SAMPLE POINT	DELTA H	PROBE TEMP.	IMP. OUT	METER IN	METER OUT	VAC. PR. (In. Hg)	meter reading 49.093
START TIME	10:08	1	1.798	250	54	94	90	3	52.840
STOP TIME	10:38	2			55	98	90		56.588
SILICA GEL	14.2	3			56	101	90		60.334
CONDENSATE	46.3	4			57	104	91		64.082
		5			58	105	91		67.809
		6	↓	↓	60	105	91	↓	71.303
AVG.							96		22.210

LEAK CHECK: BEFORE .001@14in AFTER .001@5in

				TEMPERATURE DEGREE FAHRENHEIT					DRY GAS VOLUME (Cu. Ft.)
RUN NO.	4	SAMPLE POINT	DELTA H	PROBE TEMP.	IMP. OUT	METER IN	METER OUT	VAC. PR. (In. Hg)	meter reading 71.500
START TIME	10:47	1	1.798	250	55	93	90	3	75.247
STOP TIME	11:17	2			56	98	90	1	78.995
SILICA GEL	13.9	3			57	102	90		82.743
CONDENSATE	47.2	4			58	103	90		86.490
		5			59	103	91		90.238
		6	↓	↓	61	104	91	↓	93.985
AVG.							95		22.485

MOISTURE FIELD DATA SHEETS

CLIENT:	SJRPP	DATE:	12-12-01
PROJECT NO.:	01-315	OPERATOR:	Nichols
SAMPLING LOCATION:	Unit 2	METER-ORIFICE:	3.2978
BAROMETRIC PRESSURE:	30.35	METER CORR. FACTOR:	1.017
SAMPLE PT. TIME:	5min	UNIT LOAD:	high PROBE NO:

LEAK CHECK: BEFORE .001 @ 15in AFTER .001@15in

RUN NO.	5	SAMPLE POINT	DELTA H	PROBE TEMP.	IMP. OUT	METER IN	METER OUT	VAC. PR. (In. Hg)	DRY GAS VOLUME (Cu. Ft.)
					TEMPERATURE DEGREE FAHRENHEIT				meter reading 94.120
START TIME	11:25	1	1.798	250	55	93	90	3	97.867
STOP TIME	11:55	2			56	100	90		101.615
SILICA GEL	13.5	3			58	103	90		105.363
CONDENSATE	47.3	4			58	103	90		109.111
		5			59	104	90		112.858
		6	↓	↓	60	104	91	↓	116.605
AVG.							96		22.485

LEAK CHECK: BEFORE .001@15in AFTER .001@5in

RUN NO.	6	SAMPLE POINT	DELTA H	PROBE TEMP.	IMP. OUT	METER IN	METER OUT	VAC. PR. (In. Hg)	DRY GAS VOLUME (Cu. Ft.)
					TEMPERATURE DEGREE FAHRENHEIT				meter reading 116.800
START TIME	12:48	1	1.798	250	54	84	84	3	120.547
STOP TIME	13:18	2			55	89	84		124.295
SILICA GEL	14.1	3			57	93	84		128.042
CONDENSATE	46.8	4			57	95	84		131.789
		5			58	98	85		135.537
		6	↓	↓	60	97	85	↓	139.284
AVG.							84.83		22.484

LEAK CHECK: BEFORE .001@15in AFTER .001@5in

RUN NO.	7	SAMPLE POINT	DELTA H	PROBE TEMP.	IMP. OUT	METER IN	METER OUT	VAC. PR. (In. Hg)	DRY GAS VOLUME (Cu. Ft.)
					TEMPERATURE DEGREE FAHRENHEIT				meter reading 139.600
START TIME	~~13:30~~ 13:00	1	1.798	250	54	91	85	3	[illegible] 143.347
STOP TIME	13:52	2			56	97	86		[illegible] 147.095
SILICA GEL	14.2	3			56	98	86		[illegible] 150.842
CONDENSATE	46.3	4			57	100	86		[illegible] 154.590
		5			55	101	87		[illegible] 158.337
		6	↓	↓	59	102	87	↓	[illegible] 162.084
AVG.						92	[illegible]		22.484

MOISTURE FIELD DATA SHEETS

CLIENT:	SJRPP	DATE:	12-12-01
PROJECT NO.:	01-315	OPERATOR:	Nichols
SAMPLING LOCATION:	Unit 2	METER-ORIFICE:	3.2978
BAROMETRIC PRESSURE:	30.35	METER CORR. FACTOR:	1.017
SAMPLE PT. TIME:	5min	UNIT LOAD:	High
		PROBE NO:	

LEAK CHECK: BEFORE .001@15in AFTER .001@5in

RUN NO.	8	SAMPLE POINT	DELTA H	PROBE TEMP.	IMP. OUT	METER IN	METER OUT	VAC. PR. (In. Hg)	DRY GAS VOLUME (Cu. Ft.)
									BEFORE READING 162.200
START TIME	13:56	1	1.798	250	54	89	88	3	165.948
STOP TIME	14:26	2			55	98	88		169.695
SILICA GEL	14.6	3			56	102	88		173.442
CONDENSATE	47.3	4			57	102	89		177.189
		5			58	103	90		180.936
		6	↓	↓	59	104	90	↓	184.648
AVG.							91		22.448

LEAK CHECK: BEFORE .001@15in AFTER .001@5in

RUN NO.	9	SAMPLE POINT	DELTA H	PROBE TEMP.	IMP. OUT	METER IN	METER OUT	VAC. PR. (In. Hg)	DRY GAS VOLUME (Cu. Ft.)
									BEFORE READING 184.800
START TIME	14:31	1	1.798	250	55	92	89	3	188.548
STOP TIME	15:01	2			56	101	90		192.295
SILICA GEL	13.4	3			57	103	90		196.043
CONDENSATE	48.2	4			58	104	90		199.790
		5			59	104	90		203.537
		6	↓	↓	61	105	91	↓	207.286
AVG.							96		22.486

LEAK CHECK: BEFORE .001@15in AFTER .000@5in

RUN NO.	10	SAMPLE POINT	DELTA H	PROBE TEMP.	IMP. OUT	METER IN	METER OUT	VAC. PR. (In. Hg)	DRY GAS VOLUME (Cu. Ft.)
									BEFORE READING 207.400
START TIME	15:09	1	1.788	250	54	91	90	3	211.147
STOP TIME	15:39	2			55	100	90		214.895
SILICA GEL	14.3	3			56	102	90		218.642
CONDENSATE	47.2	4			57	105	91		222.390
		5			58	105	91		226.137
		6	↓	↓	59	106	92	↓	229.884
AVG.							96		22.449

Test Run 1 Begin. STRATA Version 2.0
Operator: hal stiles
Plant Name: St.Johns River Power Park
Location: Unit 2 high load

		CO2 %	CO ppm
Start Averaging			
12/12/01	8:53:12	13.32	378.80
12/12/01	8:54:11	13.42	393.10
12/12/01	8:55:11	13.38	368.50
12/12/01	8:56:12	13.35	463.10
12/12/01	8:57:12	13.52	547.20
12/12/01	8:58:11	13.61	674.70
12/12/01	8:59:11	13.52	826.80
12/12/01	9:00:12	13.29	474.50
12/12/01	9:01:12	13.38	273.40
12/12/01	9:02:11	13.58	335.30
12/12/01	9:03:11	13.56	515.10
12/12/01	9:04:12	13.50	404.60
12/12/01	9:05:12	13.53	400.80
12/12/01	9:06:11	13.59	417.40
12/12/01	9:07:10	13.66	363.20
12/12/01	9:08:12	13.56	531.60
12/12/01	9:09:11	13.67	405.70
12/12/01	9:10:11	13.63	410.80
12/12/01	9:11:13	13.57	396.80
12/12/01	9:12:12	13.63	406.80
12/12/01	9:13:11	13.69	487.70
Test Run 1 End			
Average	549 samples	13.53	454.50

Test Run 2 Begin. STRATA Version 2.0
Operator: hal stiles
Plant Name: St.Johns River Power Park
Location: Unit 2 high load

		CO2 %	CO ppm
Start Averaging			
12/12/01	9:31:18	13.57	529.60
12/12/01	9:32:17	13.47	551.40
12/12/01	9:33:19	13.52	537.50
12/12/01	9:34:18	13.58	467.20
12/12/01	9:35:18	13.59	464.60
12/12/01	9:36:17	13.54	389.30
12/12/01	9:37:19	13.64	439.80
12/12/01	9:38:18	13.59	573.10
12/12/01	9:39:17	13.59	390.30
12/12/01	9:40:17	13.70	501.10
12/12/01	9:41:18	13.66	596.50
12/12/01	9:42:18	13.67	445.50
12/12/01	9:43:17	13.52	335.00
12/12/01	9:44:17	13.47	270.50
12/12/01	9:45:18	13.67	341.10
12/12/01	9:46:18	13.74	553.10
12/12/01	9:47:17	13.65	432.10
12/12/01	9:48:19	13.67	597.20
12/12/01	9:49:18	13.74	524.50
12/12/01	9:50:18	13.76	450.10
12/12/01	9:51:17	13.63	303.30
Test Run 2 End			
Average	572 samples	13.62	461.80

Test Run 3 Begin. STRATA Version 2.0
Operator: hal stiles
Plant Name: St.Johns River Power Park
Location: Unit 2 high load

		CO2 %	CO ppm
Start Averaging			
12/12/01	10:09:22	13.48	500.90
12/12/01	10:10:23	13.51	522.20
12/12/01	10:11:23	13.58	683.50
12/12/01	10:12:22	13.45	564.00
12/12/01	10:13:22	13.53	424.60
12/12/01	10:14:23	13.64	698.20
12/12/01	10:15:23	13.43	524.60
12/12/01	10:16:22	13.37	293.30
12/12/01	10:17:24	13.47	393.20
12/12/01	10:18:23	13.45	419.80
12/12/01	10:19:23	13.58	447.30
12/12/01	10:20:22	13.69	389.40
12/12/01	10:21:24	13.55	410.00
12/12/01	10:22:23	13.42	319.90
12/12/01	10:23:23	13.53	357.10
12/12/01	10:24:22	13.55	449.20
12/12/01	10:25:24	13.62	418.10
12/12/01	10:26:23	13.60	467.30
12/12/01	10:27:23	13.53	564.10
12/12/01	10:28:22	13.51	401.70
12/12/01	10:29:24	13.73	590.80
Test Run 3 End			
Average	573 samples	13.54	468.80

Test Run 4 Begin. STRATA Version 2.0
Operator: hal stiles
Plant Name: St.Johns River Power Park
Location: Unit 2 high load

		CO2 %	CO ppm
Start Averaging			
12/12/01	10:48:17	13.39	416.20
12/12/01	10:49:19	13.53	474.70
12/12/01	10:50:18	13.46	367.40
12/12/01	10:51:18	13.54	392.10
12/12/01	10:52:19	13.61	549.10
12/12/01	10:53:19	13.67	471.30
12/12/01	10:54:18	13.58	475.00
12/12/01	10:55:18	13.52	323.10
12/12/01	10:56:19	13.68	295.00
12/12/01	10:57:19	13.40	238.90
12/12/01	10:58:18	13.52	232.20
12/12/01	10:59:18	13.54	450.10
12/12/01	11:00:19	13.59	423.40
12/12/01	11:01:19	13.65	435.10
12/12/01	11:02:18	13.74	574.00
12/12/01	11:03:18	13.74	749.20
12/12/01	11:04:19	13.64	547.60
12/12/01	11:05:19	13.66	540.90
12/12/01	11:06:18	13.64	428.80
12/12/01	11:07:17	13.66	397.20
12/12/01	11:08:19	13.56	503.80
Test Run 4 End			
Average	573 samples	13.59	442.30

Test Run 5 Begin. STRATA Version 2.0
Operator: hal stiles
Plant Name: St.Johns River Power Park
Location: Unit 2 high load

		CO2 %	CO ppm
Start Averaging			
12/12/01	11:26:05	13.55	584.90
12/12/01	11:27:06	13.67	582.20
12/12/01	11:28:06	13.63	609.50
12/12/01	11:29:05	13.45	334.00
12/12/01	11:30:05	13.52	310.30
12/12/01	11:31:06	13.65	361.50
12/12/01	11:32:06	13.64	354.40
12/12/01	11:33:05	13.55	481.20
12/12/01	11:34:05	13.51	411.00
12/12/01	11:35:06	13.57	366.20
12/12/01	11:36:06	13.49	645.40
12/12/01	11:37:05	13.44	540.30
12/12/01	11:38:07	13.57	620.70
12/12/01	11:39:06	13.61	566.80
12/12/01	11:40:06	13.62	500.50
12/12/01	11:41:05	13.51	442.30
12/12/01	11:42:07	13.61	373.40
12/12/01	11:43:06	13.85	536.70
12/12/01	11:44:06	13.80	665.80
12/12/01	11:45:05	13.64	524.50
12/12/01	11:46:07	13.68	545.10
Test Run 5 End			
Average	573 samples	13.60	492.90

Test Run 6 Begin. STRATA Version 2.0
Operator: hal stiles
Plant Name: St.Johns River Power Park
Location: Unit 2 high load

		CO2 %	CO ppm
Start Averaging			
12/12/01	12:49:15	13.60	408.20
12/12/01	12:50:17	13.61	312.40
12/12/01	12:51:16	13.52	273.10
12/12/01	12:52:16	13.59	432.00
12/12/01	12:53:15	13.56	519.40
12/12/01	12:54:17	13.65	592.50
12/12/01	12:55:16	13.51	430.70
12/12/01	12:56:16	13.63	525.20
12/12/01	12:57:15	13.73	915.80
12/12/01	12:58:17	13.59	761.70
12/12/01	12:59:16	13.58	520.20
12/12/01	13:00:15	13.47	414.60
12/12/01	13:01:15	13.61	542.10
12/12/01	13:02:16	13.82	902.50
12/12/01	13:03:16	13.73	992.40
12/12/01	13:04:15	13.57	647.70
12/12/01	13:05:17	13.64	465.50
12/12/01	13:06:16	13.66	661.10
12/12/01	13:07:16	13.57	480.10
12/12/01	13:08:15	13.63	447.20
12/12/01	13:09:17	13.69	606.20
Test Run 6 End			
Average	573 samples	13.62	564.50

Test Run 7 Begin. STRATA Version 2.0
Operator: hal stiles
Plant Name: St.Johns River Power Park
Location: Unit 2 high load

		CO2 %	CO ppm
Start Averaging			
12/12/01	13:23:15	13.50	618.70
12/12/01	13:24:17	13.54	765.90
12/12/01	13:25:16	13.39	549.20
12/12/01	13:26:15	13.47	418.50
12/12/01	13:27:15	13.49	293.90
12/12/01	13:28:17	13.56	393.60
12/12/01	13:29:16	13.56	430.90
12/12/01	13:30:15	13.51	444.00
12/12/01	13:31:17	13.71	377.60
12/12/01	13:32:16	13.74	438.50
12/12/01	13:33:16	13.70	627.80
12/12/01	13:34:15	13.52	409.50
12/12/01	13:35:17	13.58	334.80
12/12/01	13:36:16	13.74	322.70
12/12/01	13:37:16	13.66	389.60
12/12/01	13:38:15	13.56	375.70
12/12/01	13:39:17	13.51	248.80
12/12/01	13:40:16	13.67	340.70
12/12/01	13:41:16	13.45	279.90
12/12/01	13:42:15	13.48	305.10
12/12/01	13:43:17	13.67	361.80
Test Run 7 End			
Average	573 samples	13.57	415.70

Test Run 8 Begin. STRATA Version 2.0
Operator: hal stiles
Plant Name: St.Johns River Power Park
Location: Unit 2 high load

		CO2 %	CO ppm
Start Averaging			
12/12/01	13:57:20	13.54	430.00
12/12/01	13:58:22	13.50	553.10
12/12/01	13:59:21	13.47	447.90
12/12/01	14:00:20	13.52	445.50
12/12/01	14:01:20	13.60	484.10
12/12/01	14:02:22	13.67	566.00
12/12/01	14:03:21	13.69	715.80
12/12/01	14:04:20	13.61	678.20
12/12/01	14:05:20	13.52	354.30
12/12/01	14:06:21	13.62	341.80
12/12/01	14:07:21	13.75	526.10
12/12/01	14:08:20	13.81	650.30
12/12/01	14:09:20	13.55	451.80
12/12/01	14:10:21	13.44	276.60
12/12/01	14:11:21	13.54	259.80
12/12/01	14:12:20	13.74	317.10
12/12/01	14:13:20	13.74	526.90
12/12/01	14:14:21	13.49	397.70
12/12/01	14:15:21	13.77	304.70
12/12/01	14:16:20	13.81	586.90
12/12/01	14:17:20	13.51	573.40
Test Run 8 End			
Average	573 samples	13.61	470.50

Test Run 9 Begin. STRATA Version 2.0
Operator: hal stiles
Plant Name: St.Johns River Power Park
Location: Unit 2 high load

		CO2 %	CO ppm
Start Averaging			
12/12/01	14:32:19	13.52	529.00
12/12/01	14:33:21	13.41	446.80
12/12/01	14:34:21	13.45	357.20
12/12/01	14:35:20	13.42	269.10
12/12/01	14:36:19	13.47	285.40
12/12/01	14:37:21	13.54	410.00
12/12/01	14:38:21	13.53	369.10
12/12/01	14:39:20	13.56	389.90
12/12/01	14:40:19	13.46	355.70
12/12/01	14:41:21	13.46	253.90
12/12/01	14:42:20	13.67	307.20
12/12/01	14:43:20	13.65	501.90
12/12/01	14:44:19	13.47	258.00
12/12/01	14:45:21	13.41	177.10
12/12/01	14:46:20	13.59	282.50
12/12/01	14:47:20	13.63	388.90
12/12/01	14:48:19	13.71	357.50
12/12/01	14:49:21	13.60	287.00
12/12/01	14:50:20	13.54	225.40
12/12/01	14:51:20	13.81	403.60
12/12/01	14:52:21	13.65	536.70
Test Run 9 End			
Average	573 samples	13.55	352.00

Test Run 10 Begin. STRATA Version 2.0
Operator: hal stiles
Plant Name: St.Johns River Power Park
Location: Unit 2 high load

		CO2	CO
		%	ppm
12/12/01	15:10:04	13.36	424.00
12/12/01	15:11:06	13.46	514.50
12/12/01	15:12:05	13.51	627.10
12/12/01	15:13:05	13.59	670.30
12/12/01	15:14:04	13.50	552.00
12/12/01	15:15:06	13.48	326.60
12/12/01	15:16:05	13.60	456.90
12/12/01	15:17:05	13.55	426.30
12/12/01	15:18:06	13.61	440.70
12/12/01	15:19:05	13.57	552.30
12/12/01	15:20:05	13.59	385.20
12/12/01	15:21:04	13.58	302.60
12/12/01	15:22:06	13.63	404.30
12/12/01	15:23:05	13.69	535.80
12/12/01	15:24:05	13.73	669.30
12/12/01	15:25:04	13.68	411.50
12/12/01	15:26:06	13.48	280.00
12/12/01	15:27:05	13.57	221.40
12/12/01	15:28:04	13.59	343.90
12/12/01	15:29:06	13.59	396.30
12/12/01	15:30:05	13.49	396.70
Test Run 10 End			
	averages	13.56	444.65

ANALYZER CALIBRATION DATA

Client **SJRPP** Project # **01-315** Test Date **12/13/01**

Source Identification **Jacksonville, FL** **1** Operator **stiles**

Calibration Data For Sampling Runs: **1-12** Gas Type: **CO** Span: **1000**	Cylinder Number	Cylinder Value % or PPM	Analyzer Response	Absolute Difference % or PPM	Difference % of Span
Zero Gas		.0	.8	.80	.08
Low-Range Gas		N\A			
Mid-Range Gas	351	304.0	307.5	3.50	.35
High-Range Gas	065	608.0	612.0	4.00	.40

Calibration Data For Sampling Runs: **1-12** Gas Type: **CO2** Span: **20**	Cylinder Number	Cylinder Value % or PPM	Analyzer Response	Absolute Difference % or PPM	Difference % of Span
Zero Gas		.00	.04	.04	.20
Low-Range Gas		N\A			
Mid-Range Gas	CC99263	11.10	11.34	.24	1.20
High-Range Gas	DP010791	17.30	17.35	.05	.25

ANALYZER CALIBRATION BIAS AND DRIFT DATA

Client	**SJRPP**	Project #	**01-315**	Test Date	**12/13/2001**
Source Identification		**Jacksonville, FL**	**1**	Operator	**stiles**

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	1		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO						
Span:	1000						
Zero Gas		0.80	0.20	0.06	0.30	0.05	0.01
Upscale Gas		307.50	308.00	0.05	307.00	0.05	0.10

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	2		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO						
Span:	1000						
Zero Gas		0.80	0.30	0.05	0.50	0.03	0.02
Upscale Gas		307.50	307.00	0.05	306.00	0.15	0.10

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	3		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO						
Span:	1000						
Zero Gas		0.80	0.50	0.03	0.40	0.04	0.01
Upscale Gas		307.50	306.00	0.15	304.00	0.35	0.20

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	4		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO						
Span:	1000						
Zero Gas		0.80	0.40	0.04	0.50	0.03	0.01
Upscale Gas		307.50	304.00	0.35	308.00	0.05	0.40

DRIFT = (FINAL SYSTEM CAL. RESPONSE - INITIAL CAL. RESPONSE / SPAN) X 100

ANALYZER CALIBRATION BIAS AND DRIFT DATA

Client	**SJRPP**	Project #	**01-315**	Test Date	**12/13/2001**
Source Identification		**Jacksonville, FL**	**1**	Operator	**stiles**

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	5		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO						
Span:	1000						
Zero Gas		0.80	0.50	0.03	0.80	0.00	0.03
Upscale Gas		307.50	308.00	0.05	306.50	0.10	0.15

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	6		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO						
Span:	1000						
Zero Gas		0.80	0.80	0.00	0.60	0.02	0.02
Upscale Gas		307.50	306.50	0.10	305.00	0.25	0.15

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	7		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO						
Span:	1000						
Zero Gas		0.80	0.60	0.02	0.60	0.02	0.00
Upscale Gas		307.50	305.00	0.25	307.50	0.00	0.25

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	8		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO						
Span:	1000						
Zero Gas		0.80	0.60	0.02	0.00	0.08	0.06
Upscale Gas		307.50	307.50	0.00	309.00	0.15	0.15

DRIFT = (FINAL SYSTEM CAL. RESPONSE - INITIAL CAL. RESPONSE / SPAN) X 100

ANALYZER CALIBRATION BIAS AND DRIFT DATA

Client	**SJRPP**	Project #	**01-315**	Test Date	**12/13/2001**
Source Identification		**Jacksonville, FL**	**1**	Operator	**stiles**

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	9		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO						
Span:	1000						
Zero Gas		0.80	0.00	0.08	0.00	0.08	0.00
Upscale Gas		307.50	309.00	0.15	302.00	0.55	0.70

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	10		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO						
Span:	1000						
Zero Gas		0.80	0.00	0.08	-0.20	0.10	0.02
Upscale Gas		307.50	302.00	0.55	306.00	0.15	0.40

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	11		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO						
Span:	1000						
Zero Gas		0.80	-0.20	0.10	0.00	0.08	0.02
Upscale Gas		307.50	304.50	0.30	0.00	30.75	30.45

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	12		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO						
Span:	1000						
Zero Gas		0.80	0.00	0.08	0.00	0.08	0.00
Upscale Gas		307.50	0.00	30.75	0.00	30.75	0.00

DRIFT = (FINAL SYSTEM CAL. RESPONSE - INITIAL CAL. RESPONSE / SPAN) X 100

ANALYZER CALIBRATION BIAS AND DRIFT DATA

Client **SJRPP** Project # **01-315** Test Date **12/13/2001**
Source Identification **Jacksonville, FL 1** Operator **stiles**

Calibration Data For		Analyzer	Initial Values		Final Values		Drift
Sampling Runs:	1	Response	System	System	System	System	% of Span
Gas Type:	CO2		Response	Cal. Bias	Response	Cal. Bias	
Span:	20			% of Span		% of Span	
Zero Gas		0.04	0.23	0.95	0.45	2.05	1.10
Upscale Gas		11.34	11.04	1.50	11.20	0.70	0.80

Calibration Data For		Analyzer	Initial Values		Final Values		Drift
Sampling Runs:	2	Response	System	System	System	System	% of Span
Gas Type:	CO2		Response	Cal. Bias	Response	Cal. Bias	
Span:	20			% of Span		% of Span	
Zero Gas		0.04	0.45	2.05	0.51	2.35	0.30
Upscale Gas		11.34	11.20	0.70	11.29	0.25	0.45

Calibration Data For		Analyzer	Initial Values		Final Values		Drift
Sampling Runs:	3	Response	System	System	System	System	% of Span
Gas Type:	CO2		Response	Cal. Bias	Response	Cal. Bias	
Span:	20			% of Span		% of Span	
Zero Gas		0.04	0.51	2.35	0.52	2.40	0.05
Upscale Gas		11.34	11.29	0.25	11.29	0.25	0.00

Calibration Data For		Analyzer	Initial Values		Final Values		Drift
Sampling Runs:	4	Response	System	System	System	System	% of Span
Gas Type:	CO2		Response	Cal. Bias	Response	Cal. Bias	
Span:	20			% of Span		% of Span	
Zero Gas		0.04	0.52	2.40	0.59	2.75	0.35
Upscale Gas		11.34	11.29	0.25	11.22	0.60	0.35

DRIFT = (FINAL SYSTEM CAL. RESPONSE - INITIAL CAL. RESPONSE / SPAN) X 100

ANALYZER CALIBRATION BIAS AND DRIFT DATA

Client	**SJRPP**	Project #	**01-315**	Test Date	**12/13/2001**
Source Identification		**Jacksonville, FL**	**1**	Operator	**stiles**

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	5		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO2						
Span:	20						
Zero Gas		0.04	0.59	2.75	0.54	2.50	0.25
Upscale Gas		11.34	11.22	0.60	11.21	0.65	0.05

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	6		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO2						
Span:	20						
Zero Gas		0.04	0.54	2.50	0.48	2.20	0.30
Upscale Gas		11.34	11.21	0.65	11.23	0.55	0.10

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	7		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO2						
Span:	20						
Zero Gas		0.04	0.48	2.20	0.54	2.50	0.30
Upscale Gas		11.34	11.23	0.55	11.25	0.45	0.10

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	8		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO2						
Span:	20						
Zero Gas		0.04	0.54	2.50	0.51	2.35	0.15
Upscale Gas		11.34	11.25	0.45	11.21	0.65	0.20

DRIFT = (FINAL SYSTEM CAL. RESPONSE - INITIAL CAL. RESPONSE / SPAN) X 100

ANALYZER CALIBRATION BIAS AND DRIFT DATA

Client	**SJRPP**	Project #	**01-315**	Test Date	**12/13/2001**
Source Identification		**Jacksonville, FL**	**1**	Operator	**stiles**

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	9		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO2						
Span:	20						
Zero Gas		0.04	0.51	2.35	0.49	2.25	0.10
Upscale Gas		11.34	11.21	0.65	11.23	0.55	0.10

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	10		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO2						
Span:	20						
Zero Gas		0.04	0.49	2.25	0.45	2.05	0.20
Upscale Gas		11.34	11.23	0.55	11.30	0.20	0.35

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	11		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO2						
Span:	20						
Zero Gas		0.04	0.45	2.05	0.00	0.20	2.25
Upscale Gas		11.34	11.30	0.20	0.00	56.70	56.50

Calibration Data For		Analyzer Response		Values	Final Values		Drift % of Span
Sampling Runs:	12		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO2						
Span:	20						
Zero Gas		0.04	0.00	0.20	0.00	0.20	0.00
Upscale Gas		11.34	0.00	56.70	0.00	56.70	0.00

DRIFT = (FINAL SYSTEM CAL. RESPONSE - INITIAL CAL. RESPONSE / SPAN) X 100

ANALYZER CALIBRATION DATA

Client **SJRPP** Project # **01-315** Test Date **12/12/01**

Source Identification **Jacksonville, FL** **2** Operator **stiles**

Calibration Data For Sampling Runs: **1-12** Gas Type: **CO** Span: **1000**	Cylinder Number	Cylinder Value % or PPM	Analyzer Response	Absolute Difference % or PPM	Difference % of Span
Zero Gas		.0	1.1	1.10	.11
Low-Range Gas		N\A			
Mid-Range Gas	351	304.0	311.0	7.00	.70
High-Range Gas	065	608.0	618.0	10.00	1.00

Calibration Data For Sampling Runs: **1-12** Gas Type: **CO2** Span: **20**	Cylinder Number	Cylinder Value % or PPM	Analyzer Response	Absolute Difference % or PPM	Difference % of Span
Zero Gas		.00	.08	.08	.40
Low-Range Gas		N\A			
Mid-Range Gas	CC99263	11.10	11.14	.04	.20
High-Range Gas	DP010791	17.30	17.25	.05	.25

ANALYZER CALIBRATION BIAS AND DRIFT DATA

Client	**SJRPP**	Project #	**01-315**	Test Date	**12/12/2001**
Source Identification		**Jacksonville, FL**	**2**	Operator	**stiles**

Calibration Data For			Initial Values		Final Values		
Sampling Runs:	1	Analyzer	System	System	System	System	Drift
Gas Type:	CO	Response	Response	Cal. Bias	Response	Cal. Bias	% of Span
Span:	1000			% of Span		% of Span	
Zero Gas		1.10	0.70	0.04	1.20	0.01	0.05
Upscale Gas		311.00	308.00	0.30	302.00	0.90	0.60

Calibration Data For			Initial Values		Final Values		
Sampling Runs:	2	Analyzer	System	System	System	System	Drift
Gas Type:	CO	Response	Response	Cal. Bias	Response	Cal. Bias	% of Span
Span:	1000			% of Span		% of Span	
Zero Gas		1.10	1.20	0.01	0.70	0.04	0.05
Upscale Gas		311.00	302.00	0.90	307.00	0.40	0.50

Calibration Data For			Initial Values		Final Values		
Sampling Runs:	3	Analyzer	System	System	System	System	Drift
Gas Type:	CO	Response	Response	Cal. Bias	Response	Cal. Bias	% of Span
Span:	1000			% of Span		% of Span	
Zero Gas		1.10	0.70	0.04	1.00	0.01	0.03
Upscale Gas		311.00	307.00	0.40	305.00	0.60	0.20

Calibration Data For			Initial Values		Final Values		
Sampling Runs:	4	Analyzer	System	System	System	System	Drift
Gas Type:	CO	Response	Response	Cal. Bias	Response	Cal. Bias	% of Span
Span:	1000			% of Span		% of Span	
Zero Gas		1.10	1.00	0.01	2.60	0.15	0.16
Upscale Gas		311.00	305.00	0.60	308.00	0.30	0.30

DRIFT = (FINAL SYSTEM CAL. RESPONSE - INITIAL CAL. RESPONSE / SPAN) X 100

ANALYZER CALIBRATION BIAS AND DRIFT DATA

Client	**SJRPP**	Project #	**01-315**	Test Date	**12/12/2001**
Source Identification		**Jacksonville, FL**	**2**	Operator	**stiles**

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	5		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO						
Span:	1000						
Zero Gas		1.10	2.60	0.15	0.60	0.05	0.20
Upscale Gas		311.00	308.00	0.30	303.00	0.80	0.50

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	6		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO						
Span:	1000						
Zero Gas		1.10	0.60	0.05	1.30	0.02	0.07
Upscale Gas		311.00	303.00	0.80	304.90	0.61	0.19

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	7		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO						
Span:	1000						
Zero Gas		1.10	1.30	0.02	2.30	0.12	0.10
Upscale Gas		311.00	304.90	0.61	304.80	0.62	0.01

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	8		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO						
Span:	1000						
Zero Gas		1.10	2.30	0.12	0.30	0.08	0.20
Upscale Gas		311.00	304.80	0.62	308.00	0.30	0.32

DRIFT = (FINAL SYSTEM CAL. RESPONSE - INITIAL CAL. RESPONSE / SPAN) X 100

ANALYZER CALIBRATION BIAS AND DRIFT DATA

Client	**SJRPP**	Project #	**01-315**	Test Date	**12/12/2001**
Source Identification		**Jacksonville, FL**	**2**	Operator	**stiles**

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	9		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO						
Span:	1000						
Zero Gas		1.10	0.30	0.08	0.00	0.11	0.03
Upscale Gas		311.00	308.00	0.30	303.00	0.80	0.50

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	10		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO						
Span:	1000						
Zero Gas		1.10	0.00	0.11	0.00	0.11	0.00
Upscale Gas		311.00	303.00	0.80	304.00	0.70	0.10

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	11		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO						
Span:	1000						
Zero Gas		1.10	0.00	0.11	0.00	0.11	0.00
Upscale Gas		311.00	304.00	0.70	0.00	31.10	30.40

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	12		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO						
Span:	1000						
Zero Gas		1.10	0.00	0.11	0.00	0.11	0.00
Upscale Gas		311.00	0.00	31.10	0.00	31.10	0.00

DRIFT = (FINAL SYSTEM CAL. RESPONSE - INITIAL CAL. RESPONSE / SPAN) X 100

ANALYZER CALIBRATION BIAS AND DRIFT DATA

Client	**SJRPP**	Project #	**01-315**	Test Date	**12/12/01**
Source Identification		**Jacksonville, FL**	**2**	Operator	**stiles**

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	1		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO2						
Span:	20						
Zero Gas		0.08	0.35	1.35	0.40	1.60	0.25
Upscale Gas		11.14	11.24	0.50	11.40	1.30	0.80

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	2		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO2						
Span:	20						
Zero Gas		0.08	0.40	1.60	0.35	1.35	0.25
Upscale Gas		11.14	11.40	1.30	11.40	1.30	0.00

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	3		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO2						
Span:	20						
Zero Gas		0.08	0.35	1.35	0.44	1.80	0.45
Upscale Gas		11.14	11.40	1.30	11.40	1.30	0.00

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	4		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO2						
Span:	20						
Zero Gas		0.08	0.44	1.80	0.42	1.70	0.10
Upscale Gas		11.14	11.40	1.30	11.40	1.30	0.00

DRIFT = (FINAL SYSTEM CAL. RESPONSE - INITIAL CAL. RESPONSE / SPAN) X 100

ANALYZER CALIBRATION BIAS AND DRIFT DATA

Client	**SJRPP**	Project #	**01-315**	Test Date	**12/12/01**
Source Identification		**Jacksonville, FL**	**2**	Operator	**stiles**

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	5		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO2						
Span:	20						
Zero Gas		0.08	0.42	1.70	0.37	1.45	0.25
Upscale Gas		11.14	11.40	1.30	11.42	1.40	0.10

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	6		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO2						
Span:	20						
Zero Gas		0.08	0.37	1.45	0.38	1.50	0.05
Upscale Gas		11.14	11.42	1.40	11.37	1.15	0.25

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	7		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO2						
Span:	20						
Zero Gas		0.08	0.38	1.50	0.47	1.95	0.45
Upscale Gas		11.14	11.37	1.15	11.37	1.15	0.00

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	8		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO2						
Span:	20						
Zero Gas		0.08	0.47	1.95	0.44	1.80	0.15
Upscale Gas		11.14	11.37	1.15	11.35	1.05	0.10

DRIFT = (FINAL SYSTEM CAL. RESPONSE - INITIAL CAL. RESPONSE / SPAN) X 100

ANALYZER CALIBRATION BIAS AND DRIFT DATA

Client	**SJRPP**	Project #	**01-315**	Test Date	**12/12/01**
Source Identification		**Jacksonville, FL**	**2**	Operator	**stiles**

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	9		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO2						
Span:	20						
Zero Gas		0.08	0.44	1.80	0.44	1.80	0.00
Upscale Gas		11.14	11.35	1.05	11.38	1.20	0.15

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	10		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO2						
Span:	20						
Zero Gas		0.08	0.44	1.80	0.36	1.40	0.40
Upscale Gas		11.14	11.38	1.20	11.36	1.10	0.10

Calibration Data For		Analyzer Response	Initial Values		Final Values		Drift % of Span
Sampling Runs:	11		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO2						
Span:	20						
Zero Gas		0.08	0.36	1.40	0.00	0.40	1.80
Upscale Gas		11.14	11.36	1.10	0.00	55.70	56.80

Calibration Data For		Analyzer Response		Values	Final Values		Drift % of Span
Sampling Runs:	12		System Response	System Cal. Bias % of Span	System Response	System Cal. Bias % of Span	
Gas Type:	CO2						
Span:	20						
Zero Gas		0.08	0.32	1.20	0.00	0.40	1.60
Upscale Gas		11.14	11.37	1.15	0.00	55.70	56.85

DRIFT = (FINAL SYSTEM CAL. RESPONSE - INITIAL CAL. RESPONSE / SPAN) X 100

Grace Consulting, Inc.
EPA Method 5
522 Series Meter Box Calibration
Calibration Orifice Method
English Meter Box Units, English K' Factor

e:	10/2/01
Model:	Apex
Serial:	4A

Barometric Pressure:	29.29	(in Hg)
Theoretical Critical Vacuum:	13.82	(in Hg)

IMPORTANT For valid test results, the Actual Vacuum should be 1 to 2 in. Hg greater than the Theoretical Critical Vacuum shown above.
IMPORTANT The Critical Orifice Coefficient, K', must be entered in English units, (ft)^3*(deg R)^0.5/((in.Hg)*(min)).

DRY GAS METER READINGS							Critical Orifice Readings					
dH (in H2O)	Time (min)	Volume Initial (cu ft)	Volume Final (cu ft)	Volume Total (cu ft)	Temp Initial (deg F)	Temp Final (deg F)	Orifice Serial #	K' Orifice Coefficient (see above)	Actual Vacuum (in Hg)	AMBIENT TEMPERATURE Initial (deg F)	Final (deg F)	Average (deg F)
0.61	11.45	800.50	805.50	5	64	66	48	0.3449	14	65	66	65.5
1.1	9.37	806.50	812.00	5.5	66	67	55	0.4595	14	66	66	66
1.9	12.98	812.50	822.50	10	69	72	63	0.5958	14	66	66	66
3.5	19.42	823.00	843.50	20.5	71	77	73	0.8215	14	65	66	65.5
5.4	15.22	844.00	864.00	20	77	77	81	1.0185	14	66	66	66

CORRECTED VOLUME	
DRY GAS METER Vm(std) (cu ft)	ORIFICE Vcr(std) (cu ft)
4.928	5.046
5.412	5.499
9.786	9.876
20.009	20.384
19.504	19.797

DRY GAS METER CALIBRATION FACTOR Y	
Value	Variation
1.024	0.007
1.016	-0.0006
1.009	-0.0073
1.019	0.0022
1.015	-0.0015
Average	1.017

ORIFICE CALIBRATION FACTOR dH@	
Value (in H20)	Variation (in H20)
1.767	-0.032
1.797	-0.002
1.846	0.048
1.787	-0.011
1.795	-0.003
Average	1.798

Orifice for Calc.
3.2978

Note: For Calibration Factor Y, the ratio of the reading of the calibration meter to the dry gas meter, acceptable tolerance of individual values from the average is +-0.02.

For Orifice Calibration Factor dH@, the orifice differential pressure in inches of H20 that equates to 0.75 cfm of air at 68 F and 29.92 inches of Hg, acceptable tolerance of individual values from the average is +-0.2.

SIGNED:_____ Date:_____

$$V_{m(std)} = 17.64\,(V_m)\frac{P_b + \frac{\Delta H}{13.6}}{t_m + 460}$$

$$V_{cr(std)} = K'\frac{P_b\theta}{\sqrt{t_{amb.} + 460}}$$

$$Y = \frac{V_{cr(std)}}{V_{m(std)}}$$

$$\Delta H_@ = \Delta H\left(\frac{.75\theta}{V_{cr(std)}}\right)^2$$

Grace Consulting, Inc.
EPA Method 5
Post Test Calibration
Calibration Orifice Method
English Meter Box Units, English K' Factor

Date:	12/20/01
Model:	Apex
Serial:	4-a

Barometric Pressure:	29.25	(in Hg)
Theoretical Critical Vacuum:	13.80	(in Hg)

IMPORTANT For valid test results, the Actual Vacuum should be 1 to 2 in. Hg greater than the Theoretical Critical Vacuum shown above.
IMPORTANT The Critical Orifice Coefficient, K', must be entered in English units, (ft)^3*(deg R)^0.5/((in.Hg)*(min)).

DRY GAS METER READINGS							Critical Orifice Readings					
dH (in H2O)	Time (min)	Volume Initial (cu ft)	Volume Final (cu ft)	Volume Total (cu ft)	Temp Initial (deg F)	Temp Final (deg F)	Orifice Serial #	K' Orifice Coefficient (see above)	Actual Vacuum (in Hg)	AMBIENT TEMPERATURE Initial (deg F)	Final (deg F)	Average (deg F)
1.8	13.08	975.1	985.1	10	61	65	63	0.5958	14	58	59	58.5
1.8	13.13	985.1	995.1	10	65	66	63	0.5958	14	59	59	59
1.8	13.05	1005.1	1015.1	10	67	67	63	0.5958	14	59	58	58.5

CORRECTED VOLUME	
DRY GAS METER Vm(std) (cu ft)	ORIFICE Vcr(std) (cu ft)
9.910	10.011
9.863	10.044
9.835	9.988

DRY GAS METER CALIBRATION FACTOR Y	
Value	Variation
1.010	-0.005
1.018	0.00368
1.016	0.00085

Average 1.015

ORIFICE CALIBRATION FACTOR dH@	
Value (in H20)	Variation (in H20)
1.729	-0.001
1.730	0.001
1.729	-0.001

Average 1.729

Note: For Calibration Factor Y, the ratio of the reading of the calibration meter to the dry gas meter, acceptable tolerance of individual values from the average is +-0.02.

For Orifice Calibration Factor dH@, the orifice differential pressure in inches of H20 that equates to 0.75 cfm of air at 68 F and 29.92 inches of Hg, acceptable tolerance of individual values from the average is +-0.2.

SIGNED: _____ Date: 12/20/01

$$V_{m(std)} = 17.64 (V_m) \frac{P_b + \frac{\Delta H}{13.6}}{t_m + 460}$$

$$V_{cr(std)} = K' \frac{P_b \theta}{\sqrt{t_{amb} + 460}}$$

$$Y = \frac{V_{cr(std)}}{V_{m(std)}}$$

$$\Delta H_@ = \Delta H \left(\frac{.75\theta}{V_{cr(std)}} \right)^2$$

For Technical Information Call
1-800-752-1597

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: 231 -1
APCI
5420 WARNER RD.
VALLEY VIEW
CLEVELAND OH 44125-

Order No: 861032862-06
Batch No: 86144684
PO:
Release:

Cylinder No: SG9139334BAL
Bar Code No: DEL893
Cylinder Pressure*: 1400 psig
Certification Date: 06/17/2001
Expiration Date: 06/17/2004

CERTIFIED CONCENTRATION		REFERENCE STANDARDS			ANALYTICAL INSTRUMENTATION			
Component	Certified Concentration	Cylinder Number	Standard Type	Standard Concentration	Instrument Make/Model	Serial Number	Last Calibration	Measurement Principal
CARBON MONOXIDE	304±2.5 PPM	SG9168784BAL	NTRM	491.0 PPM	Horiba VIA-510	405079	06/01/01	NON DISPERSIVE INFRARED

NITROGEN Balance Gas

*** STANDARD SHOULD NOT BE USED BELOW 150 PSIG**

Notes: CHRONOLOGICAL DATA
CERT:2/4/98 EXP: 2/4/01
PREVIOUS: CO 305PPM

EPA PROTOCOL GAS MIXTURE : CARBON MONOXIDE IN NITROGEN
To reorder this mixture please use Mix ID: 27580

351

Analyst: _____ Abbasi Husain

Approved By: _____ James Laas

(16921)

Pub. No. 320-9702

For Technical Information Call
1-800-752-1597

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:
APCI
5420 WARNER RD.
VALLEY VIEW
CLEVELAND OH 44125

Order No: SRP-226455-04
Batch No: 861-G0506
PO:
Release:

Cylinder No: SG860029
Bar Code No: DXC089
Cylinder Pressure*: 2000 psig
Certification Date: 08/02/1999
Expiration Date: 08/02/2002

CERTIFIED CONCENTRATION		REFERENCE STANDARDS			ANALYTICAL INSTRUMENTATION			
Component	Certified Concentration	Cylinder Number	Standard Type	Standard Concentration	Instrument Make/Model	Serial Number	Last Calibration	Measurement Principal
CARBON MONOXIDE	608 ±7.5 PPM	SG9165511BAL	GMIS	990.2 PPM	HORIBA VIA-510	405079	07/13/99	NON DISPERSIVE INFRARED
NITROGEN	Balance Gas							

*** STANDARD SHOULD NOT BE USED BELOW 150 PSIG**

Analyst: JULIAN K. SEGBAWO

Approved By: James Laas

065

(16921)

Pub. No. 320-9702

AGA

AGA Gas, Inc.

CERTIFICATE OF ANALYSIS
EPA PROTOCOL
PERFORMED ACCORDING TO EPA-600/R-97/121, PROCEDURE G1

NOTICE: THIS CYLINDER IS NOT TO BE USED WHEN PRESSURE IS UNDER 150 psig

MANUFACTURED AND CERTIFIED AT:

AGA Gas Inc.
Specialty & Medical Gas Division
6421 Monclova Road
Maumee, Ohio 43537
419-893-7226

ANALYTICAL AND CYLINDER DATA:

Certified Component	Concentration and Uncertainty	Date of Certification
Nitric Oxide	552 ± 6 ppm	3/13/2001
Sulfur Dioxide	161 ± 2 ppm	3/13/2001
Carbon Monoxide	1090 ± 10 ppm	3/13/2001
Carbon Dioxide	11.1 ± 0.1%	3/13/2001

Analyzed for Reference Use Only	Concentration	Date of Analysis
NOX	552 ppm	3/13/2001

Production Number: 100032368
Cylinder Number: CC99263
Expiration Date: 3/13/2003

Cylinder Pressure (psi): 2000
Balance Gas: Nitrogen
CGA: 660

REFERENCE STANDARDS DATA (TRACEABLE TO NIST AND NMI STANDARDS):

Reference Standard Number	Cylinder Number	Concentration and Component	Expiration Date
GMIS	CC84214	2522 ppm Carbon Monoxide	3/21/2002
GMIS	DP009338	490.5 ppm Carbon Monoxide	3/21/2002
GMIS	CC59278	2075 ppm Nitric Oxide	3/21/2002
GMIS	CC13748	496.1 ppm Nitric Oxide	3/21/2002
GMIS	CC314	494.0 ppm Sulfur Dioxide	3/21/2002
GMIS	CC59244	100.7 ppm Sulfur Dioxide	3/21/2002
NTRM	CC59213	19.91% Carbon Dioxide	8/1/2005
NTRM	CC59178	6.90% Carbon Dioxide	10/2002

INSTRUMENTATION DATA:

Instrument Model	Serial Number	Date of Last Calibration	Analytical Principle
Horiba CLA-510SS	569466055	3/13/2001	Chemiluminescence
Horiba VIA-510	568279012	3/13/2001	Non-Dispersive Infared
Horiba VIA-510	568849043	3/13/2001	Non-Dispersive Infared

Analytical Report Approved By: Kathy Andrews

AGA Gas, Inc.
6421 Monclova Road
Maumee, Ohio 43537

Telephone:
(419) 893-7226

Fax:
(419) 893-6411

AGA

AGA Gas, Inc.

CERTIFICATE OF ANALYSIS
EPA PROTOCOL
PERFORMED ACCORDING TO EPA-600/R-97/121, PROCEDURE G1

NOTICE: THIS CYLINDER IS NOT TO BE USED WHEN PRESSURE IS UNDER 150 psig

MANUFACTURED AND CERTIFIED AT:

AGA Gas inc.
Specialty & Medical Gas Division
6421 Monclova Road
Maumee, Ohio 43537
419-893-7226

ANALYTICAL AND CYLINDER DATA:

Certified Component	Concentration and Uncertainty	Date of Certification
Nitric Oxide	866 ± 8 ppm	3/13/2001
Sulfur Dioxide	251 ± 3 ppm	3/13/2001
Carbon Monoxide	1610 ± 16 ppm	3/13/2001
Carbon Dioxide	17.3 ± 0.2%	3/13/2001

Analyzed for Reference Use Only	Concentration	Date of Analysis
NOX	869 ppm	3/13/2001

Production Number: 100032367
Cylinder Number: DP010791
Expiration Date: 3/13/2003

Cylinder Pressure (psi): 2000
Balance Gas: Nitrogen
CGA: 660

REFERENCE STANDARDS DATA (TRACEABLE TO NIST AND NMI STANDARDS):

Reference Standard Number	Cylinder Number	Concentration and Component	Expiration Date
GMIS	CC84214	2522 ppm Carbon Monoxide	3/21/2002
GMIS	DP009338	490.5 ppm Carbon Monoxide	3/21/2002
GMIS	CC59278	2075 ppm Nitric Oxide	3/21/2002
GMIS	CC13748	496.1 ppm Nitric Oxide	3/21/2002
GMIS	CC314	494.0 ppm Sulfur Dioxide	3/21/2002
GMIS	CC59244	100.7 ppm Sulfur Dioxide	3/21/2002
NTRM	CC59213	19.91% Carbon Dioxide	8/1/2005
NTRM	CC59178	6.90% Carbon Dioxide	10/2002

INSTRUMENTATION DATA:

Instrument Model	Serial Number	Date of Last Calibration	Analytical Principle
Horiba CLA-510SS	569466055	3/13/2001	Chemiluminescence
Horiba VIA-510	568279012	3/13/2001	Non-Dispersive Infared
Horiba VIA-510	568849043	3/13/2001	Non-Dispersive Infared

Analytical Report Approved By: Larry Sandwell

COMMERCIAL TESTING & ENGINEERING CO.
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9

December 27, 2001

ST. JOHNS RIVER POWER PARK
11201 NEW BERLIN RD
JACKSONVILLE FL 32226

Sample identification by
SJRPP

Unit #: ONE
Date Collected: 12/10/01
SJRPP Lab ID #: UNIT1-121001
P.O. #2312

Kind of sample reported to us Coal

Sample taken at -----

Sample taken by -----

Date sampled December 10, 2001

Date received December 21, 2001

Analysis Report No. 63-53281

SHORT PROXIMATE ANALYSIS

	As Received	Dry Basis		
% Moisture	10.40	xxxxx		
% Ash	7.54	8.41		
Btu/lb	12137	13546	MAF	14790
% Sulfur	1.63	1.82		

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Henderson Laboratory

MEMBER ACIL

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December 27, 2001

ST. JOHNS RIVER POWER PARK
11201 NEW BERLIN RD
JACKSONVILLE FL 32226

Sample identification by
SJRPP

Unit #: ONE
Date Collected: 12/11/01
SJRPP Lab ID #: UNIT1-121101
P.O. #2312

Kind of sample reported to us: Coal

Sample taken at: -----

Sample taken by: ---

Date sampled: December 11, 2001

Date received: December 21, 2001

Analysis Report No. 63-53282

SHORT PROXIMATE ANALYSIS

	As Received	Dry Basis		
% Moisture	11.51	xxxxx		
% Ash	5.98	6.76		
Btu/lb	12104	13678	MAF	14670
% Sulfur	1.50	1.69		

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Henderson Laboratory

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December 27, 2001

ST. JOHNS RIVER POWER PARK
11201 NEW BERLIN RD
JACKSONVILLE FL 32226

Sample identification by
SJRPP

Unit #: ONE
Date Collected: 12/12/01
SJRPP Lab ID #: UNIT1-121201
P.O. #2312

Kind of sample reported to us: Coal

Sample taken at: -----

Sample taken by: -----

Date sampled: December 12, 2001

Date received: December 21, 2001

Analysis Report No. 63-53283

SHORT PROXIMATE ANALYSIS

	As Received	Dry Basis		
% Moisture	10.91	xxxxx		
% Ash	7.11	7.98		
Btu/lb	12048	13523	MAF	14696
% Sulfur	1.15	1.29		

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Henderson Laboratory

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FAX: (502) 826-0719

December 27, 2001

ST. JOHNS RIVER POWER PARK
11201 NEW BERLIN RD
JACKSONVILLE FL 32226

Sample identification by
SJRPP

Unit #: ONE
Date Collected: 12/13/01
SJRPP Lab ID #: UNIT1-121301
P.O. #2312

Kind of sample reported to us: Coal

Sample taken at: -----

Sample taken by: -----

Date sampled: December 13, 2001

Date received: December 21, 2001

Analysis Report No. 63-53284

SHORT PROXIMATE ANALYSIS

	As Received	Dry Basis		
% Moisture	9.89	xxxxx		
% Ash	5.12	5.68		
Btu/lb	12514	13888	MAF	14724
% Sulfur	1.59	1.76		

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Henderson Laboratory

MEMBER ACIL

COMMERCIAL TESTING & ENGINEERING CO.
GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • TEL: 630-953-9300 FAX: 630-953-9305

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FAX: (502) 826-0719

December 27, 2001

ST. JOHNS RIVER POWER PARK
11201 NEW BERLIN RD
JACKSONVILLE FL 32226

Sample identification by
SJRPP

Unit #: TWO
Date Collected: 12/10/01
SJRPP Lab ID #: UNIT2-121001
P.O. #2312

Kind of sample reported to us: Coal

Sample taken at: -----

Sample taken by: -----

Date sampled: December 10, 2001

Date received: December 21, 2001

Analysis Report No. 63-53285

SHORT PROXIMATE ANALYSIS

	As Received	Dry Basis		
% Moisture	7.38	xxxxx		
% Ash	13.15	14.20		
Btu/lb	11902	12850	MAF	14977
% Sulfur	2.12	2.29		

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Henderson Laboratory

MEMBER ACIL

COMMERCIAL TESTING & ENGINEERING CO.
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FAX: (502) 826-0719

December 27, 2001

ST. JOHNS RIVER POWER PARK
11201 NEW BERLIN RD
JACKSONVILLE FL 32226

Sample identification by
SJRPP

Unit #: TWO
Date Collected: 12/11/01
SJRPP Lab ID #: UNIT2-121101
P.O. #2312

Kind of sample reported to us: Coal

Sample taken at: -----

Sample taken by: -----

Date sampled: December 11, 2001

Date received: December 21, 2001

Analysis Report No. 63-53286

SHORT PROXIMATE ANALYSIS

	As Received	Dry Basis		
% Moisture	7.23	xxxxx		
% Ash	9.32	10.05		
Btu/lb	12434	13403	MAF	14901
% Sulfur	2.27	2.45		

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING Co.

Henderson Laboratory

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FAX: (502) 826-0719

December 27, 2001

ST. JOHNS RIVER POWER PARK
11201 NEW BERLIN RD
JACKSONVILLE FL 32226

Sample identification by
SJRPP

Unit #: TWO
Date Collected: 12/12/01
SJRPP Lab ID #: UNIT2-121201
P.O. #2312

Kind of sample reported to us: Coal

Sample taken at: -----

Sample taken by:

Date sampled: December 12, 2001

Date received: December 21, 2001

Analysis Report No. 63-53287

SHORT PROXIMATE ANALYSIS

	As Received	Dry Basis		
% Moisture	8.05	xxxxx		
% Ash	7.36	8.00		
Btu/lb	12605	13708	MAF	14900
% Sulfur	2.29	2.49		

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Henderson Laboratory

MEMBER ACIL

COMMERCIAL TESTING & ENGINEERING CO.
GENERAL OFFICES: 1818 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • TEL: 630-953-0300 FAX: 630-953-0309

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HENDERSON, KY 42419
TEL: (502) 827-1187
FAX: (502) 826-0719

December 27, 2001

ST. JOHNS RIVER POWER PARK
11201 NEW BERLIN RD
JACKSONVILLE FL 32226

Sample identification by
SJRPP

Unit #: TWO
Date Collected: 12/13/01
SJRPP Lab ID #: UNIT2-121301
P.O. #2312

Kind of sample reported to us: Coal

Sample taken at: -----

Sample taken by: ---

Date sampled: December 13, 2001

Date received: December 21, 2001

Analysis Report No. 63-53288

SHORT PROXIMATE ANALYSIS

	As Received	Dry Basis		
% Moisture	7.24	XXXXX		
% Ash	8.87	9.56		
Btu/lb	12426	13396	MAF	14812
% Sulfur	1.93	2.08		

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Henderson Laboratory

MEMBER ACIL

RUN #1 OUTLET

Enertec NTDAHS®
Average Values Report
Generated : 12/13/01 12:01

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Company: St. Johns River Power Park U#1
Plant: 11201 New Berlin Road
City/St: Jacksonville, FL 32226
Source: Unit 1

Period Start: 12/13/01 10:56
Period End: 12/13/01 11:17
Validation Type: 1/1 min
Averaging Period: 1/1 min
Type: Rolling Avg

Period Start	Average 1outCO_C ppm	Average 1outCO_MM #/M	Average 1outCO2_C %	Average 1outNOX_MM #/M	Average 1outSO2_C ppm	Average 1outSO2_MM #/M	Average 1Stk_kscfh kscfh	Average 1Unit_Load MW
12/13/01 10:56	97.2	0.108	11.77	0.421	165.8	0.421	101670.0	663.7
12/13/01 10:57	99.7	0.110	11.85	0.411	169.2	0.427	101694.0	663.1
12/13/01 10:58	98.5	0.110	11.74	0.419	168.8	0.430	101748.0	662.2
12/13/01 10:59	106.5	0.119	11.74	0.423	168.7	0.430	101922.0	661.7
12/13/01 11:00	125.9	0.140	11.75	0.424	168.5	0.429	101934.0	663.3
12/13/01 11:01	99.1	0.117	11.69	0.426	165.6	0.423	101934.0	663.4
12/13/01 11:02	71.3	0.079	11.69	0.426	164.4	0.421	101880.0	663.5
12/13/01 11:03	86.0	0.096	11.71	0.424	166.3	0.424	101724.0	665.4
12/13/01 11:04	76.1	0.084	11.76	0.416	164.9	0.418	101712.0	663.5
12/13/01 11:05	81.5	0.091	11.75	0.420	164.3	0.418	101700.0	657.4
12/13/01 11:06	142.2	0.158	11.80	0.417	165.3	0.420	101562.0	662.7
12/13/01 11:07	107.6	0.119	11.79	0.415	165.5	0.419	101580.0	665.8
12/13/01 11:08	51.0	0.057	11.69	0.428	164.3	0.420	101592.0	660.2
12/13/01 11:09	77.6	0.087	11.69	0.428	166.7	0.426	101580.0	660.8
12/13/01 11:10	170.9	0.190	11.78	0.415	167.9	0.426	101262.0	664.7
12/13/01 11:11	101.7	0.113	11.72	0.419	166.7	0.425	101274.0	660.7
12/13/01 11:12	84.0	0.094	11.65	0.426	165.9	0.426	101274.0	658.4
12/13/01 11:13	90.2	0.099	11.80	0.417	169.4	0.428	101376.0	659.6
12/13/01 11:14	104.0	0.116	11.75	0.416	167.6	0.426	101508.0	660.1
12/13/01 11:15	99.1	0.111	11.69	0.421	166.4	0.425	101484.0	662.1
12/13/01 11:16	80.7	0.090	11.73	0.425	166.9	0.424	101496.0	664.2
12/13/01 11:17	73.8	0.082	11.74	0.427	167.0	0.425	101580.0	666.5
Final Average*	**96.6**	**0.108**	**11.74**	**0.421**	**166.6**	**0.424**	**101613.0**	**662.4**
Maximum*	**170.9**	**0.190**	**11.85**	**0.428**	**169.4**	**0.430**	**101934.0**	**666.5**
Minimum*	**51.0**	**0.057**	**11.65**	**0.411**	**164.3**	**0.418**	**101262.0**	**657.4**

*Does not include Invalid Averaging Periods ("N/A")

RUN #2 OUTLET

Enertec NTDAHS®
Average Values Report
Generated : 12/13/01 12:01

Company: St. Johns River Power Park U#1
Plant: 11201 New Berlin Road
City/St: Jacksonville, FL 32226
Source: Unit 1

Period Start: 12/13/01 11:35
Period End: 12/13/01 11:56
Validation Type: 1/1 min
Averaging Period: 1/1 min
Type: Rolling Avg

Period Start	Average 1outCO_C ppm	Average 1outCO_MM #/M	Average 1outCO2_C %	Average 1outNOX_MM #/M	Average 1outSO2_C ppm	Average 1outSO2_MM #/M	Average 1Stk_kscfh kscfh	Average 1Unit_Load MW
12/13/01 11:35	152.6	0.170	11.73	0.430	167.2	0.426	101832.0	662.7
12/13/01 11:36	116.2	0.130	11.76	0.428	167.8	0.428	101814.0	664.0
12/13/01 11:37	124.9	0.139	11.78	0.423	168.1	0.426	101652.0	659.5
12/13/01 11:38	125.4	0.139	11.78	0.425	169.2	0.429	101646.0	662.4
12/13/01 11:39	215.0	0.238	11.81	0.420	170.6	0.432	101658.0	664.2
12/13/01 11:40	124.5	0.139	11.75	0.426	166.8	0.424	101724.0	660.4
12/13/01 11:41	204.3	0.227	11.76	0.427	166.4	0.423	101988.0	662.0
12/13/01 11:42	140.5	0.156	11.77	0.426	166.1	0.422	102000.0	662.8
12/13/01 11:43	105.5	0.117	11.75	0.428	166.9	0.423	101976.0	664.1
12/13/01 11:44	131.7	0.147	11.76	0.427	167.1	0.423	101892.0	664.2
12/13/01 11:45	145.7	0.161	11.81	0.422	168.1	0.425	101880.0	664.8
12/13/01 11:46	117.6	0.130	11.81	0.423	169.7	0.429	101880.0	663.0
12/13/01 11:47	185.0	0.199	11.85	0.424	170.1	0.428	101880.0	661.5
12/13/01 11:48	151.6	0.175	11.80	0.427	170.6	0.432	101880.0	663.4
12/13/01 11:49	250.9	0.278	11.81	0.421	168.6	0.427	101880.0	665.1
12/13/01 11:50	236.4	0.263	11.80	0.422	168.4	0.427	101904.0	665.7
12/13/01 11:51	107.5	0.120	11.77	0.428	168.5	0.428	101934.0	659.6
12/13/01 11:52	114.9	0.127	11.84	0.423	169.9	0.429	101934.0	658.6
12/13/01 11:53	125.2	0.138	11.86	0.421	170.9	0.431	101934.0	664.1
12/13/01 11:54	83.2	0.093	11.78	0.428	171.2	0.434	101592.0	665.5
12/13/01 11:55	64.2	0.072	11.73	0.432	171.0	0.436	101496.0	658.4
12/13/01 11:56	94.3	0.105	11.77	0.427	171.9	0.436	101508.0	659.1
Final Average*	**141.7**	**0.157**	**11.79**	**0.425**	**168.9**	**0.428**	**101812.9**	**662.5**
Maximum*	**250.9**	**0.278**	**11.86**	**0.432**	**171.9**	**0.436**	**102000.0**	**665.7**
Minimum*	**64.2**	**0.072**	**11.73**	**0.420**	**166.1**	**0.422**	**101496.0**	**658.4**

*Does not include Invalid Averaging Periods ("N/A")

RUN #3 OUTLET

Enertec NTDAHS®
Average Values Report
Generated : 12/13/01 12:44

Company: St. Johns River Power Park U#1
Plant: 11201 New Berlin Road
City/St: Jacksonville, FL 32226
Source: Unit 1

Period Start: 12/13/01 12:11
Period End: 12/13/01 12:32
Validation Type: 1/1 min
Averaging Period: 1/1 min
Type: Rolling Avg

Period Start	Average 1outCO_C ppm	Average 1outCO_MM #/M	Average 1outCO2_C %	Average 1outNOX_MM #/M	Average 1outSO2_C ppm	Average 1outSO2_MM #/M	Average 1Stk_kscfh kscfh	Average 1Unit_Load MW
12/13/01 12:11	117.6	0.131	11.73	0.428	168.5	0.429	102036.0	658.1
12/13/01 12:12	80.4	0.090	11.71	0.429	167.2	0.427	102024.0	659.6
12/13/01 12:13	71.2	0.079	11.74	0.424	168.6	0.429	102054.0	661.9
12/13/01 12:14	149.9	0.165	11.75	0.423	167.3	0.426	101988.0	662.2
12/13/01 12:15	170.7	0.191	11.73	0.427	165.1	0.421	101988.0	665.3
12/13/01 12:16	193.3	0.215	11.74	0.421	163.8	0.417	101988.0	666.1
12/13/01 12:17	182.0	0.207	11.77	0.415	163.9	0.416	101826.0	660.6
12/13/01 12:18	135.4	0.149	11.86	0.413	166.1	0.419	101772.0	660.8
12/13/01 12:19	130.6	0.145	11.84	0.417	165.1	0.417	101760.0	662.2
12/13/01 12:20	123.2	0.137	11.74	0.424	162.4	0.414	101760.0	665.1
12/13/01 12:21	81.8	0.092	11.70	0.430	161.6	0.413	101736.0	664.6
12/13/01 12:22	149.3	0.167	11.74	0.427	162.3	0.413	101748.0	664.6
12/13/01 12:23	157.3	0.175	11.79	0.418	164.1	0.416	101724.0	663.4
12/13/01 12:24	89.9	0.100	11.81	0.419	165.5	0.419	101388.0	665.2
12/13/01 12:25	142.8	0.159	11.76	0.420	165.4	0.420	101184.0	660.7
12/13/01 12:26	209.0	0.232	11.79	0.415	166.0	0.421	101220.0	662.5
12/13/01 12:27	224.7	0.250	11.78	0.414	166.6	0.423	N/A	663.7
12/13/01 12:28	151.9	0.169	11.79	0.417	166.6	0.422	N/A	659.0
12/13/01 12:29	215.5	0.240	11.74	0.422	165.1	0.420	N/A	660.4
12/13/01 12:30	217.3	0.241	11.79	0.413	164.2	0.416	N/A	659.4
12/13/01 12:31	142.0	0.158	11.73	0.420	163.6	0.416	N/A	659.6
12/13/01 12:32	144.3	0.161	11.74	0.422	162.9	0.414	N/A	657.3
Final Average*	**149.1**	**0.166**	**11.76**	**0.421**	**165.1**	**0.419**	**101762.3**	**661.9**
Maximum*	**224.7**	**0.250**	**11.86**	**0.430**	**168.6**	**0.429**	**102054.0**	**666.1**
Minimum*	**71.2**	**0.079**	**11.70**	**0.413**	**161.6**	**0.413**	**101184.0**	**657.3**

*Does not include Invalid Averaging Periods ("N/A")

RUN #4 OUTLET

Enertec NTDAHS®
Average Values Report
Generated : 12/13/01 13:38

Company: St. Johns River Power Park U#1
Plant: 11201 New Berlin Road
City/St: Jacksonville, FL 32226
Source: Unit 1

Period Start: 12/13/01 12:49
Period End: 12/13/01 13:10
Validation Type: 1/1 min
Averaging Period: 1/1 min
Type: Rolling Avg

Period Start	Average 1outCO_C ppm	Average 1outCO_MM #/M	Average 1outCO2_C %	Average 1outNOX_MM #/M	Average 1outSO2_C ppm	Average 1outSO2_MM #/M	Average 1Stk_kscfh kscfh	Average 1Unit_Load MW
12/13/01 12:49	132.6	0.149	11.70	0.424	164.2	0.420	101232.0	660.3
12/13/01 12:50	147.9	0.166	11.65	0.427	161.4	0.414	101220.0	660.9
12/13/01 12:51	179.7	0.200	11.76	0.417	162.6	0.413	101220.0	660.9
12/13/01 12:52	117.2	0.131	11.70	0.420	162.2	0.414	101760.0	665.2
12/13/01 12:53	136.9	0.148	11.76	0.418	163.9	0.416	101760.0	667.7
12/13/01 12:54	155.1	0.173	11.76	0.418	165.6	0.421	101772.0	664.6
12/13/01 12:55	158.4	0.167	11.81	0.412	168.7	0.427	101916.0	661.5
12/13/01 12:56	252.7	0.279	11.84	0.409	169.0	0.427	102090.0	663.8
12/13/01 12:57	211.4	0.235	11.79	0.413	170.0	0.431	102066.0	659.3
12/13/01 12:58	77.1	0.086	11.76	0.422	169.3	0.431	102222.0	658.6
12/13/01 12:59	90.2	0.100	11.77	0.418	168.6	0.428	102624.0	661.2
12/13/01 13:00	152.8	0.171	11.72	0.421	165.5	0.422	102636.0	657.6
12/13/01 13:01	76.1	0.085	11.67	0.428	163.2	0.418	102618.0	659.9
12/13/01 13:02	72.9	0.081	11.78	0.419	165.4	0.420	102288.0	662.1
12/13/01 13:03	155.5	0.169	11.75	0.414	163.3	0.416	102174.0	663.7
12/13/01 13:04	147.2	0.164	11.70	0.419	161.8	0.412	102132.0	663.5
12/13/01 13:05	316.8	0.351	11.83	0.407	163.6	0.413	102054.0	663.5
12/13/01 13:06	306.4	0.341	11.79	0.410	164.1	0.416	101826.0	665.5
12/13/01 13:07	215.4	0.244	11.85	0.405	164.4	0.414	101802.0	665.9
12/13/01 13:08	231.4	0.254	11.79	0.405	163.9	0.415	101790.0	663.3
12/13/01 13:09	121.2	0.137	11.75	0.413	165.0	0.420	101790.0	664.0
12/13/01 13:10	121.6	0.136	11.74	0.415	164.3	0.419	101760.0	668.3
Final Average*	**162.6**	**0.180**	**11.76**	**0.416**	**165.0**	**0.419**	**101943.3**	**662.8**
Maximum*	**316.8**	**0.351**	**11.85**	**0.428**	**170.0**	**0.431**	**102636.0**	**668.3**
Minimum*	**72.9**	**0.081**	**11.65**	**0.405**	**161.4**	**0.412**	**101220.0**	**657.6**

*Does not include Invalid Averaging Periods ("N/A")

RUN # 5 OUTLET

Enertec NTDAHS®
Average Values Report
Generated : 12/13/01 14:47

Company: St. Johns River Power Park U#1
Plant: 11201 New Berlin Road
City/St: Jacksonville, FL 32226
Source: Unit 1

Period Start: 12/13/01 13:26
Period End: 12/13/01 13:47
Validation Type: 1/1 min
Averaging Period: 1/1 min
Type: Rolling Avg

Period Start	Average 1outCO_C ppm	Average 1outCO_MM #/M	Average 1outCO2_C %	Average 1outNOX_MM #/M	Average 1outSO2_C ppm	Average 1outSO2_MM #/M	Average 1Stk_kscfh kscfh	Average 1Unit_Load MW
12/13/01 13:26	153.0	0.170	11.77	0.414	163.9	0.416	101364.0	658.5
12/13/01 13:27	161.9	0.181	11.74	0.417	163.9	0.417	101352.0	658.1
12/13/01 13:28	192.6	0.215	11.71	0.424	164.0	0.419	101364.0	661.7
12/13/01 13:29	144.8	0.162	11.67	0.426	163.3	0.419	101388.0	667.2
12/13/01 13:30	112.9	0.127	11.66	0.427	160.4	0.411	101364.0	662.8
12/13/01 13:31	198.9	0.222	11.74	0.420	160.6	0.409	101394.0	658.3
12/13/01 13:32	151.3	0.168	11.81	0.411	162.0	0.410	101388.0	662.1
12/13/01 13:33	340.3	0.377	11.80	0.407	160.7	0.407	101352.0	662.5
12/13/01 13:34	190.3	0.213	11.70	0.419	160.1	0.409	101298.0	662.1
12/13/01 13:35	83.4	0.092	11.72	0.424	160.4	0.409	101256.0	664.9
12/13/01 13:36	83.1	0.093	11.73	0.423	159.9	0.408	101262.0	663.7
12/13/01 13:37	77.5	0.088	11.72	0.427	159.3	0.406	101274.0	659.7
12/13/01 13:38	125.3	0.137	11.80	0.418	160.5	0.406	101652.0	662.1
12/13/01 13:39	224.6	0.250	11.78	0.416	160.8	0.408	101772.0	660.4
12/13/01 13:40	178.6	0.200	11.70	0.421	158.0	0.404	101748.0	659.5
12/13/01 13:41	213.3	0.237	11.77	0.417	158.2	0.402	101862.0	661.3
12/13/01 13:42	153.5	0.171	11.73	0.420	156.7	0.399	101880.0	665.9
12/13/01 13:43	151.5	0.169	11.73	0.416	156.2	0.398	101880.0	666.4
12/13/01 13:44	160.1	0.175	11.76	0.417	156.4	0.397	101880.0	666.9
12/13/01 13:45	107.8	0.120	11.77	0.416	156.6	0.398	101892.0	667.5
12/13/01 13:46	123.8	0.138	11.80	0.414	155.9	0.396	101880.0	666.5
12/13/01 13:47	144.7	0.161	11.80	0.415	156.4	0.396	101880.0	659.5
Final Average*	**157.9**	**0.176**	**11.75**	**0.419**	**159.7**	**0.407**	**101562.8**	**662.6**
Maximum*	**340.3**	**0.377**	**11.81**	**0.427**	**164.0**	**0.419**	**101892.0**	**667.5**
Minimum*	**77.5**	**0.088**	**11.66**	**0.407**	**155.9**	**0.396**	**101256.0**	**658.1**

*Does not include Invalid Averaging Periods ("N/A")

RUN # 6 OUTLET

Enertec NTDAHS®
Average Values Report
Generated : 12/13/01 14:47

Company: St. Johns River Power Park U#1
Plant: 11201 New Berlin Road
City/St: Jacksonville, FL 32226
Source: Unit 1

Period Start: 12/13/01 14:13
Period End: 12/13/01 14:34
Validation Type: 1/1 min
Averaging Period: 1/1 min
Type: Rolling Avg

Period Start	Average 1outCO_C ppm	Average 1outCO_MM #/M	Average 1outCO2_C %	Average 1outNOX_MM #/M	Average 1outSO2_C ppm	Average 1outSO2_MM #/M	Average 1Stk_kscfh kscfh	Average 1Unit_Load MW
12/13/01 14:13	164.7	0.183	11.77	0.414	158.5	0.403	102264.0	662.2
12/13/01 14:14	164.1	0.182	11.80	0.408	159.0	0.403	102264.0	661.5
12/13/01 14:15	171.6	0.197	11.85	0.407	157.7	0.398	103506.0	660.2
12/13/01 14:16	137.9	0.153	11.84	0.407	157.4	0.397	103914.0	663.7
12/13/01 14:17	86.0	0.095	11.80	0.413	156.4	0.396	103926.0	661.5
12/13/01 14:18	59.2	0.066	11.83	0.414	156.9	0.396	105846.0	657.8
12/13/01 14:19	61.6	0.068	11.83	0.412	157.5	0.398	106506.0	658.7
12/13/01 14:20	164.1	0.181	11.85	0.409	157.1	0.396	106386.0	660.9
12/13/01 14:21	122.3	0.136	11.80	0.410	156.9	0.398	106428.0	664.5
12/13/01 14:22	79.0	0.088	11.76	0.416	157.4	0.400	106440.0	664.2
12/13/01 14:23	79.6	0.088	11.83	0.415	159.3	0.402	106416.0	662.5
12/13/01 14:24	99.4	0.110	11.81	0.417	160.0	0.405	N/A	662.8
12/13/01 14:25	119.1	0.131	11.88	0.410	162.9	0.410	N/A	658.3
12/13/01 14:26	103.8	0.115	11.86	0.413	162.4	0.409	106200.0	659.7
12/13/01 14:27	129.5	0.140	11.88	0.409	163.1	0.410	106242.0	662.5
12/13/01 14:28	97.4	0.108	11.82	0.412	162.4	0.411	106200.0	663.5
12/13/01 14:29	71.6	0.080	11.77	0.424	161.0	0.409	106200.0	658.2
12/13/01 14:30	114.4	0.126	11.85	0.415	161.1	0.407	106200.0	657.8
12/13/01 14:31	135.0	0.148	11.91	0.405	161.4	0.405	106200.0	659.1
12/13/01 14:32	126.8	0.140	11.84	0.412	160.6	0.405	106224.0	660.8
12/13/01 14:33	131.6	0.147	11.77	0.421	159.1	0.404	105630.0	663.0
12/13/01 14:34	137.8	0.153	11.81	0.415	158.7	0.401	103878.0	664.7
Final Average*	**116.2**	**0.129**	**11.83**	**0.413**	**159.4**	**0.403**	**105343.5**	**661.3**
Maximum*	**171.6**	**0.197**	**11.91**	**0.424**	**163.1**	**0.411**	**106506.0**	**664.7**
Minimum*	**59.2**	**0.066**	**11.76**	**0.405**	**156.4**	**0.396**	**102264.0**	**657.8**

*Does not include Invalid Averaging Periods ("N/A")

RUN # 7 OUTLET

Enertec NTDAHS®
Average Values Report
Generated : 12/13/01 16:19

Company: St. Johns River Power Park U#1
Plant: 11201 New Berlin Road
City/St: Jacksonville, FL 32226
Source: Unit 1

Period Start: 12/13/01 14:54
Period End: 12/13/01 15:15
Validation Type: 1/1 min
Averaging Period: 1/1 min
Type: Rolling Avg

Period Start	Average 1outCO_C ppm	Average 1outCO_MM #/M	Average 1outCO2_C %	Average 1outNOX_MM #/M	Average 1outSO2_C ppm	Average 1outSO2_MM #/M	Average 1Stk_kscfh kscfh	Average 1Unit_Load MW
12/13/01 14:54	89.3	0.098	11.88	0.386	162.5	0.409	101658.0	666.5
12/13/01 14:55	93.0	0.103	11.87	0.384	163.1	0.411	101568.0	660.9
12/13/01 14:56	148.3	0.163	11.91	0.377	165.5	0.415	101580.0	661.7
12/13/01 14:57	98.1	0.108	11.83	0.387	165.4	0.418	101592.0	663.9
12/13/01 14:58	70.7	0.079	11.82	0.392	165.9	0.419	101646.0	659.5
12/13/01 14:59	72.7	0.080	11.91	0.390	168.9	0.424	101700.0	659.6
12/13/01 15:00	87.1	0.090	11.91	0.400	169.1	0.425	101688.0	666.6
12/13/01 15:01	255.9	0.285	11.75	0.410	164.0	0.417	101826.0	660.8
12/13/01 15:02	544.1	0.610	11.67	0.395	163.4	0.418	101856.0	657.5
12/13/01 15:03	321.8	0.359	11.75	0.391	164.7	0.419	101868.0	648.9
12/13/01 15:04	97.0	0.108	11.71	0.397	163.8	0.418	102000.0	650.1
12/13/01 15:05	122.8	0.137	11.70	0.404	164.2	0.419	102180.0	662.8
12/13/01 15:06	439.7	0.492	11.71	0.398	164.1	0.419	102156.0	666.4
12/13/01 15:07	699.9	0.785	11.67	0.386	164.4	0.421	102168.0	656.2
12/13/01 15:08	468.7	0.517	11.87	0.386	168.7	0.425	101814.0	658.0
12/13/01 15:09	292.4	0.322	11.88	0.397	167.6	0.422	101814.0	664.8
12/13/01 15:10	182.0	0.204	11.71	0.414	161.9	0.413	101790.0	669.3
12/13/01 15:11	306.8	0.343	11.69	0.416	161.1	0.412	102000.0	663.4
12/13/01 15:12	287.9	0.318	11.86	0.400	165.0	0.416	N/A	660.9
12/13/01 15:13	283.7	0.312	11.90	0.401	166.5	0.418	N/A	665.5
12/13/01 15:14	275.8	0.307	11.78	0.408	163.8	0.416	N/A	665.0
12/13/01 15:15	142.2	0.158	11.78	0.410	161.9	0.411	N/A	659.5
Final Average*	**244.5**	**0.272**	**11.80**	**0.397**	**164.8**	**0.418**	**101828.0**	**661.3**
Maximum*	**699.9**	**0.785**	**11.91**	**0.416**	**169.1**	**0.425**	**102180.0**	**669.3**
Minimum*	**70.7**	**0.079**	**11.67**	**0.377**	**161.1**	**0.409**	**101568.0**	**648.9**

*Does not include Invalid Averaging Periods ("N/A")

RUN #8 OUTLET

Enertec NTDAHS®
Average Values Report
Generated : 12/13/01 16:19

Company: St. Johns River Power Park U#1
Plant: 11201 New Berlin Road
City/St: Jacksonville, FL 32226
Source: Unit 1

Period Start: 12/13/01 15:33
Period End: 12/13/01 15:54
Validation Type: 1/1 min
Averaging Period: 1/1 min
Type: Rolling Avg

Period Start	Average 1outCO_C ppm	Average 1outCO_MM #/M	Average 1outCO2_C %	Average 1outNOX_MM #/M	Average 1outSO2_C ppm	Average 1outSO2_MM #/M	Average 1Stk_kscfh kscfh	Average 1Unit_Load MW
12/13/01 15:33	413.0	0.457	11.83	0.401	160.8	0.406	101844.0	660.2
12/13/01 15:34	307.8	0.342	11.81	0.408	160.2	0.405	N/A	662.0
12/13/01 15:35	326.9	0.364	11.75	0.412	159.7	0.406	N/A	662.3
12/13/01 15:36	196.1	0.218	11.76	0.417	160.1	0.407	N/A	666.1
12/13/01 15:37	238.4	0.264	11.81	0.412	160.8	0.407	N/A	666.5
12/13/01 15:38	230.1	0.256	11.78	0.413	161.8	0.411	N/A	663.9
12/13/01 15:39	264.7	0.293	11.83	0.410	162.4	0.410	N/A	662.0
12/13/01 15:40	223.4	0.246	11.88	0.405	161.9	0.407	N/A	664.2
12/13/01 15:41	201.3	0.223	11.82	0.405	160.4	0.405	N/A	658.9
12/13/01 15:42	180.7	0.201	11.77	0.407	159.6	0.405	N/A	661.8
12/13/01 15:43	201.6	0.224	11.80	0.409	160.1	0.405	N/A	661.0
12/13/01 15:44	219.7	0.244	11.75	0.411	159.7	0.406	N/A	658.7
12/13/01 15:45	136.0	0.151	11.80	0.412	159.4	0.404	N/A	661.7
12/13/01 15:46	234.3	0.259	11.83	0.408	160.5	0.406	N/A	663.5
12/13/01 15:47	175.4	0.195	11.76	0.415	159.8	0.406	N/A	660.9
12/13/01 15:48	87.3	0.097	11.75	0.419	158.9	0.405	N/A	660.2
12/13/01 15:49	123.4	0.137	11.81	0.413	159.3	0.403	N/A	664.0
12/13/01 15:50	164.9	0.183	11.81	0.412	157.0	0.397	N/A	665.6
12/13/01 15:51	177.6	0.201	11.76	0.414	156.1	0.397	N/A	660.3
12/13/01 15:52	261.3	0.291	11.77	0.412	158.8	0.403	N/A	658.0
12/13/01 15:53	231.6	0.255	11.86	0.408	160.4	0.404	N/A	662.0
12/13/01 15:54	107.4	0.120	11.75	0.417	161.3	0.410	N/A	665.5
Final Average*	**213.8**	**0.237**	**11.80**	**0.411**	**160.0**	**0.405**	**101844.0**	**662.2**
Maximum*	**413.0**	**0.457**	**11.88**	**0.419**	**162.4**	**0.411**	**101844.0**	**666.5**
Minimum*	**87.3**	**0.097**	**11.75**	**0.401**	**156.1**	**0.397**	**101844.0**	**658.0**

*Does not include Invalid Averaging Periods ("N/A")

RUN #9 Outlet

Enertec NTDAHS®
Average Values Report
Generated : 12/13/01 17:04

Company: St. Johns River Power Park U#1
Plant: 11201 New Berlin Road
City/St: Jacksonville, FL 32226
Source: Unit 1

Period Start: 12/13/01 16:18
Period End: 12/13/01 16:39
Validation Type: 1/1 min
Averaging Period: 1/1 min
Type: Rolling Avg

Period Start	Average 1outCO_C ppm	Average 1outCO_MM #/M	Average 1outCO2_C %	Average 1outNOX_MM #/M	Average 1outSO2_C ppm	Average 1outSO2_MM #/M	Average 1Stk_kscfh kscfh	Average 1Unit_Load MW
12/13/01 16:18	126.1	0.140	11.81	0.414	161.7	0.409	102132.0	667.9
12/13/01 16:19	128.3	0.142	11.86	0.412	162.2	0.409	102144.0	669.1
12/13/01 16:20	169.4	0.188	11.78	0.418	160.0	0.406	102024.0	664.5
12/13/01 16:21	357.1	0.394	11.85	0.408	161.9	0.409	101604.0	663.0
12/13/01 16:22	387.2	0.426	11.89	0.408	165.1	0.415	101616.0	662.1
12/13/01 16:23	402.3	0.447	11.79	0.414	164.3	0.417	101640.0	661.3
12/13/01 16:24	294.3	0.327	11.77	0.420	166.5	0.423	101574.0	660.3
12/13/01 16:25	216.9	0.241	11.75	0.421	168.0	0.428	101472.0	657.9
12/13/01 16:26	87.4	0.098	11.73	0.429	168.9	0.430	101496.0	658.0
12/13/01 16:27	187.3	0.208	11.76	0.418	169.6	0.431	101328.0	660.7
12/13/01 16:28	173.8	0.194	11.69	0.425	168.6	0.431	101250.0	661.8
12/13/01 16:29	171.1	0.191	11.71	0.426	168.0	0.429	101274.0	660.4
12/13/01 16:30	177.4	0.198	11.74	0.416	165.9	0.422	101262.0	660.7
12/13/01 16:31	114.8	0.128	11.77	0.417	165.9	0.421	101256.0	661.9
12/13/01 16:32	95.0	0.106	11.75	0.425	166.0	0.422	101262.0	662.8
12/13/01 16:33	121.7	0.136	11.75	0.422	165.3	0.421	101262.0	659.5
12/13/01 16:34	157.1	0.174	11.79	0.420	165.4	0.420	101142.0	659.3
12/13/01 16:35	129.7	0.144	11.78	0.419	166.2	0.422	101154.0	661.9
12/13/01 16:36	123.8	0.138	11.75	0.425	165.3	0.420	101118.0	667.9
12/13/01 16:37	122.1	0.136	11.76	0.426	165.3	0.420	101184.0	667.8
12/13/01 16:38	244.3	0.271	11.80	0.417	165.8	0.420	101220.0	662.4
12/13/01 16:39	284.3	0.314	11.84	0.414	166.8	0.421	101220.0	658.4
Final Average*	**194.2**	**0.216**	**11.78**	**0.419**	**165.6**	**0.420**	**101437.9**	**662.3**
Maximum*	**402.3**	**0.447**	**11.89**	**0.429**	**169.6**	**0.431**	**102144.0**	**669.1**
Minimum*	**87.4**	**0.098**	**11.69**	**0.408**	**160.0**	**0.406**	**101118.0**	**657.9**

*Does not include Invalid Averaging Periods ("N/A")

PCW #10 OUTLET

Enertec NTDAHS®
Average Values Report
Generated : 12/13/01 17:39

Company: St. Johns River Power Park U#1
Plant: 11201 New Berlin Road
City/St: Jacksonville, FL 32226
Source: Unit 1

Period Start: 12/13/01 16:56
Period End: 12/13/01 17:17
Validation Type: 1/1 min
Averaging Period: 1/1 min
Type: Rolling Avg

Period Start	Average 1outCO_C ppm	Average 1outCO_MM #/M	Average 1outCO2_C %	Average 1outNOX_MM #/M	Average 1outSO2_C ppm	Average 1outSO2_MM #/M	Average 1Stk_kscfh kscfh	Average 1Unit_Load MW
12/13/01 16:56	144.5	0.156	11.82	0.423	164.1	0.415	101580.0	662.2
12/13/01 16:57	217.9	0.243	11.76	0.425	163.5	0.416	101580.0	661.1
12/13/01 16:58	156.3	0.174	11.77	0.424	163.5	0.415	101976.0	658.5
12/13/01 16:59	144.9	0.161	11.75	0.427	162.3	0.413	102432.0	656.5
12/13/01 17:00	178.0	0.200	11.75	0.425	160.2	0.408	102444.0	657.3
12/13/01 17:01	158.8	0.177	11.74	0.426	157.8	0.402	102318.0	662.6
12/13/01 17:02	114.7	0.129	11.69	0.428	156.9	0.401	102036.0	663.8
12/13/01 17:03	115.7	0.129	11.70	0.429	156.9	0.401	102048.0	664.4
12/13/01 17:04	217.8	0.242	11.79	0.419	159.6	0.405	101922.0	664.2
12/13/01 17:05	297.6	0.323	11.88	0.413	161.2	0.406	101580.0	667.8
12/13/01 17:06	393.3	0.435	11.85	0.416	160.8	0.405	101580.0	667.0
12/13/01 17:07	339.2	0.375	11.84	0.418	161.5	0.408	101580.0	665.0
12/13/01 17:08	329.5	0.364	11.84	0.415	162.1	0.409	101568.0	663.0
12/13/01 17:09	241.3	0.267	11.83	0.412	162.3	0.410	101112.0	662.4
12/13/01 17:10	243.0	0.270	11.79	0.418	161.7	0.410	101088.0	658.7
12/13/01 17:11	237.0	0.263	11.78	0.419	160.3	0.407	101100.0	657.4
12/13/01 17:12	156.5	0.174	11.80	0.425	161.5	0.409	101262.0	664.0
12/13/01 17:13	173.6	0.193	11.77	0.426	159.9	0.406	101418.0	668.5
12/13/01 17:14	183.2	0.205	11.70	0.431	157.8	0.403	101406.0	663.2
12/13/01 17:15	172.2	0.192	11.77	0.425	157.6	0.400	101418.0	661.9
12/13/01 17:16	273.1	0.301	11.88	0.413	159.8	0.402	101448.0	664.3
12/13/01 17:17	258.5	0.286	11.81	0.417	158.4	0.400	101460.0	664.3
Final Average*	**215.8**	**0.239**	**11.79**	**0.422**	**160.4**	**0.407**	**101652.5**	**662.6**
Maximum*	**393.3**	**0.435**	**11.88**	**0.431**	**164.1**	**0.416**	**102444.0**	**668.5**
Minimum*	**114.7**	**0.129**	**11.69**	**0.412**	**156.9**	**0.400**	**101088.0**	**656.5**

*Does not include Invalid Averaging Periods ("N/A")

RUN #1 OUTLET

Enertec NTDAHS®
Average Values Report
Generated : 12/12/01 11:00

Company: St. Johns Unit 2
Plant:
City/St:
Source: Unit 2

Period Start: 12/12/01 08:52
Period End: 12/12/01 09:13
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Period Start	Average 2outCO_C ppm	Average 2outCO_MM #/M	Average 2outCO2_C %	Average 2outNOX_MM #/M	Average 2outSO2_C ppm	Average 2outSO2_MM #/M	Average 2Stk_kscfh kscfh	Average 2Unit_Load MW
12/12/01 08:52	281.5	0.321	11.48	0.479	150.3	0.391	97506.0	652.4
12/12/01 08:53	258.4	0.295	11.49	0.485	150.2	0.392	97524.0	655.7
12/12/01 08:54	352.2	0.404	11.42	0.484	153.2	0.401	97536.0	651.2
12/12/01 08:55	361.8	0.411	11.53	0.479	154.0	0.399	97524.0	645.7
12/12/01 08:56	320.0	0.362	11.57	0.481	154.1	0.398	97704.0	648.8
12/12/01 08:57	438.4	0.495	11.57	0.479	152.5	0.394	97746.0	654.8
12/12/01 08:58	508.1	0.574	11.59	0.476	153.2	0.395	97758.0	656.6
12/12/01 08:59	628.1	0.704	11.69	0.470	155.6	0.398	97746.0	649.1
12/12/01 09:00	646.5	0.724	11.68	0.474	154.2	0.395	98376.0	645.8
12/12/01 09:01	370.4	0.428	11.57	0.489	150.3	0.388	98376.0	647.1
12/12/01 09:02	266.5	0.302	11.53	0.491	149.8	0.388	98400.0	653.7
12/12/01 09:03	357.1	0.400	11.69	0.474	151.7	0.388	98202.0	655.9
12/12/01 09:04	442.6	0.497	11.66	0.476	151.8	0.389	98034.0	656.2
12/12/01 09:05	362.5	0.409	11.60	0.485	152.3	0.392	98022.0	653.0
12/12/01 09:06	363.8	0.409	11.63	0.484	150.1	0.386	98034.0	650.1
12/12/01 09:07	377.4	0.425	11.62	0.482	150.1	0.386	98100.0	650.5
12/12/01 09:08	365.1	0.407	11.75	0.477	150.5	0.383	98124.0	654.5
12/12/01 09:09	452.3	0.509	11.65	0.481	150.5	0.387	98112.0	656.3
12/12/01 09:10	375.5	0.421	11.69	0.478	152.0	0.389	97938.0	654.1
12/12/01 09:11	365.6	0.410	11.66	0.481	154.1	0.395	97482.0	652.0
12/12/01 09:12	370.5	0.414	11.70	0.478	153.6	0.392	97494.0	652.1
12/12/01 09:13	383.1	0.427	11.64	0.480	154.1	0.396	97494.0	653.3
Final Average*	**393.1**	**0.443**	**11.61**	**0.480**	**152.2**	**0.392**	**97874.2**	**652.2**
Maximum*	**646.5**	**0.724**	**11.75**	**0.491**	**155.6**	**0.401**	**98400.0**	**656.6**
Minimum*	**258.4**	**0.295**	**11.42**	**0.470**	**149.8**	**0.383**	**97482.0**	**645.7**

*Does not include Invalid Averaging Periods ("N/A")

RUN #2 OUTLET

Enertec NTDAHS®
Average Values Report
Generated : 12/12/01 11:01

Company: St. Johns Unit 2
Plant:
City/St:
Source: Unit 2

Period Start: 12/12/01 09:30
Period End: 12/12/01 09:51
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Period Start	Average 2outCO_C ppm	Average 2outCO_MM #/M	Average 2outCO2_C %	Average 2outNOX_MM #/M	Average 2outSO2_C ppm	Average 2outSO2_MM #/M	Average 2Stk_kscfh kscfh	Average 2Unit_Load MW
12/12/01 09:30	398.0	0.450	11.58	0.485	153.0	0.395	98562.0	657.3
12/12/01 09:31	490.4	0.549	11.75	0.476	155.4	0.396	98562.0	654.5
12/12/01 09:32	468.7	0.520	11.80	0.478	154.8	0.392	98592.0	648.5
12/12/01 09:33	487.9	0.548	11.69	0.484	153.4	0.392	98406.0	649.0
12/12/01 09:34	476.7	0.536	11.63	0.484	153.4	0.394	98430.0	650.6
12/12/01 09:35	433.4	0.487	11.66	0.486	154.7	0.397	98430.0	654.8
12/12/01 09:36	407.0	0.456	11.68	0.487	153.8	0.393	98406.0	654.1
12/12/01 09:37	369.4	0.413	11.70	0.485	152.3	0.389	98376.0	652.5
12/12/01 09:38	409.3	0.457	11.73	0.484	151.4	0.386	98376.0	650.6
12/12/01 09:39	495.0	0.553	11.71	0.482	151.9	0.388	98376.0	650.5
12/12/01 09:40	369.6	0.414	11.68	0.485	153.5	0.393	98298.0	651.6
12/12/01 09:41	480.6	0.526	11.72	0.482	154.5	0.394	98274.0	651.0
12/12/01 09:42	534.4	0.591	11.70	0.481	154.6	0.395	98274.0	648.4
12/12/01 09:43	397.0	0.446	11.66	0.485	153.1	0.392	98286.0	647.3
12/12/01 09:44	296.9	0.332	11.69	0.486	152.8	0.391	98076.0	650.4
12/12/01 09:45	273.0	0.309	11.58	0.486	151.7	0.391	98100.0	654.2
12/12/01 09:46	335.9	0.377	11.64	0.484	152.8	0.393	98100.0	652.6
12/12/01 09:47	487.5	0.542	11.77	0.484	154.4	0.392	98118.0	653.4
12/12/01 09:48	406.4	0.452	11.77	0.479	152.9	0.388	98268.0	654.5
12/12/01 09:49	526.7	0.590	11.69	0.482	153.4	0.392	98262.0	655.8
12/12/01 09:50	465.0	0.519	11.73	0.480	153.2	0.390	98274.0	654.0
12/12/01 09:51	383.5	0.427	11.74	0.479	152.8	0.389	98064.0	653.1
Final Average*	**426.9**	**0.477**	**11.70**	**0.483**	**153.4**	**0.392**	**98314.1**	**652.2**
Maximum*	**534.4**	**0.591**	**11.80**	**0.487**	**155.4**	**0.397**	**98592.0**	**657.3**
Minimum*	**273.0**	**0.309**	**11.58**	**0.476**	**151.4**	**0.386**	**98064.0**	**647.3**

*Does not include Invalid Averaging Periods ("N/A")

RUN #3 OUTLET

Enertec NTDAHS®
Average Values Report
Generated : 12/12/01 11:02

Company: St. Johns Unit 2
Plant:
City/St:
Source: Unit 2

Period Start: 12/12/01 10:08
Period End: 12/12/01 10:29
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Period Start	Average 2outCO_C ppm	Average 2outCO_MM #/M	Average 2outCO2_C %	Average 2outNOX_MM #/M	Average 2outSO2_C ppm	Average 2outSO2_MM #/M	Average 2Stk_kscfh kscfh	Average 2Unit_Load MW
12/12/01 10:08	448.3	0.498	11.66	0.487	146.7	0.376	98364.0	656.4
12/12/01 10:09	566.0	0.635	11.66	0.489	149.0	0.382	98118.0	655.3
12/12/01 10:10	450.3	0.504	11.70	0.489	150.3	0.384	98046.0	654.5
12/12/01 10:11	477.4	0.533	11.73	0.483	152.0	0.387	98022.0	652.1
12/12/01 10:12	601.8	0.673	11.71	0.479	151.4	0.386	98010.0	654.1
12/12/01 10:13	478.6	0.541	11.70	0.486	150.4	0.385	98004.0	653.4
12/12/01 10:14	412.1	0.465	11.60	0.490	150.8	0.389	98472.0	646.6
12/12/01 10:15	606.6	0.677	11.74	0.475	152.5	0.389	98514.0	643.8
12/12/01 10:16	451.8	0.520	11.61	0.487	150.9	0.388	98496.0	643.0
12/12/01 10:17	296.7	0.337	11.52	0.498	150.1	0.389	98508.0	646.4
12/12/01 10:18	360.8	0.406	11.63	0.493	150.6	0.387	98496.0	652.8
12/12/01 10:19	388.7	0.439	11.60	0.491	150.8	0.389	98508.0	653.8
12/12/01 10:20	402.9	0.458	11.61	0.489	152.5	0.393	98460.0	645.5
12/12/01 10:21	361.6	0.403	11.75	0.485	152.8	0.389	98496.0	642.1
12/12/01 10:22	359.0	0.408	11.68	0.482	152.5	0.390	98496.0	645.8
12/12/01 10:23	299.6	0.338	11.60	0.493	149.3	0.385	98460.0	651.5
12/12/01 10:24	336.0	0.380	11.55	0.496	149.3	0.386	98448.0	650.8
12/12/01 10:25	396.6	0.446	11.63	0.488	152.4	0.392	98448.0	648.8
12/12/01 10:26	383.9	0.431	11.64	0.488	153.8	0.395	98418.0	646.5
12/12/01 10:27	438.5	0.493	11.64	0.485	152.6	0.392	98418.0	649.0
12/12/01 10:28	484.5	0.548	11.57	0.489	151.3	0.390	98406.0	652.5
12/12/01 10:29	379.1	0.430	11.55	0.491	150.9	0.390	98406.0	651.9
Final Average*	**426.4**	**0.480**	**11.64**	**0.488**	**151.0**	**0.388**	**98364.3**	**649.8**
Maximum*	**606.6**	**0.677**	**11.75**	**0.498**	**153.8**	**0.395**	**98514.0**	**656.4**
Minimum*	**296.7**	**0.337**	**11.52**	**0.475**	**146.7**	**0.376**	**98004.0**	**642.1**

*Does not include Invalid Averaging Periods ("N/A")

RUN #4 OUTLET

Enertec NTDAHS®
Average Values Report
Generated : 12/12/01 11:21

Company: St. Johns Unit 2
Plant:
City/St:
Source: Unit 2

Period Start: 12/12/01 10:47
Period End: 12/12/01 11:08
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Period Start	Average 2outCO_C ppm	Average 2outCO_MM #/M	Average 2outCO2_C %	Average 2outNOX_MM #/M	Average 2outSO2_C ppm	Average 2outSO2_MM #/M	Average 2Stk_kscfh kscfh	Average 2Unit_Load MW
12/12/01 10:47	437.8	0.493	11.61	0.491	149.6	0.385	98976.0	651.8
12/12/01 10:48	465.1	0.524	11.63	0.488	149.4	0.384	98856.0	651.8
12/12/01 10:49	391.1	0.437	11.58	0.488	149.9	0.387	98814.0	652.3
12/12/01 10:50	420.3	0.473	11.64	0.480	150.7	0.387	98814.0	651.3
12/12/01 10:51	324.4	0.365	11.68	0.481	149.5	0.384	98814.0	653.4
12/12/01 10:52	385.7	0.423	11.62	0.483	149.1	0.383	98706.0	655.0
12/12/01 10:53	489.5	0.546	11.69	0.480	149.4	0.382	98376.0	655.6
12/12/01 10:54	443.1	0.495	11.75	0.480	149.9	0.382	98376.0	655.4
12/12/01 10:55	392.8	0.440	11.67	0.484	151.0	0.387	98376.0	652.6
12/12/01 10:56	308.4	0.342	11.63	0.485	151.4	0.389	98520.0	647.5
12/12/01 10:57	274.5	0.308	11.67	0.487	152.0	0.389	98496.0	645.0
12/12/01 10:58	223.3	0.251	11.63	0.493	148.9	0.382	98484.0	646.0
12/12/01 10:59	245.5	0.278	11.56	0.495	149.7	0.387	98508.0	647.7
12/12/01 11:00	405.8	0.458	11.61	0.482	149.6	0.385	98496.0	650.8
12/12/01 11:01	374.2	0.421	11.62	0.484	149.2	0.384	98508.0	651.4
12/12/01 11:02	415.0	0.458	11.65	0.485	149.6	0.384	98508.0	650.1
12/12/01 11:03	522.8	0.584	11.71	0.477	149.8	0.382	98640.0	649.0
12/12/01 11:04	638.3	0.715	11.70	0.475	151.4	0.387	98694.0	650.0
12/12/01 11:05	478.0	0.527	11.68	0.479	150.3	0.385	98682.0	651.3
12/12/01 11:06	471.0	0.530	11.64	0.481	148.2	0.380	98550.0	648.6
12/12/01 11:07	381.8	0.428	11.65	0.484	146.4	0.376	98166.0	644.6
12/12/01 11:08	390.3	0.439	11.64	0.482	147.1	0.378	98154.0	649.4
Final Average*	**403.6**	**0.452**	**11.65**	**0.484**	**149.6**	**0.384**	**98568.8**	**650.5**
Maximum*	**638.3**	**0.715**	**11.75**	**0.495**	**152.0**	**0.389**	**98976.0**	**655.6**
Minimum*	**223.3**	**0.251**	**11.56**	**0.475**	**146.4**	**0.376**	**98154.0**	**644.6**

*Does not include Invalid Averaging Periods ("N/A")

RUN # 5 OUTLET

Enertec NTDAHS®
Average Values Report
Generated : 12/12/01 12:06

Company: St. Johns Unit 2
Plant:
City/St:
Source: Unit 2

Period Start: 12/12/01 11:25
Period End: 12/12/01 11:46
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Period Start	Average 2outCO_C ppm	Average 2outCO_MM #/M	Average 2outCO2_C %	Average 2outNOX_MM #/M	Average 2outSO2_C ppm	Average 2outSO2_MM #/M	Average 2Stk_kscfh kscfh	Average 2Unit_Load MW
12/12/01 11:25	495.2	0.555	11.68	0.474	147.3	0.377	98652.0	655.6
12/12/01 11:26	561.7	0.632	11.63	0.474	148.8	0.382	98628.0	656.8
12/12/01 11:27	502.9	0.566	11.63	0.476	149.4	0.384	98550.0	654.6
12/12/01 11:28	544.9	0.608	11.73	0.470	149.5	0.381	98244.0	651.5
12/12/01 11:29	439.5	0.490	11.72	0.473	148.8	0.379	98244.0	650.7
12/12/01 11:30	303.2	0.341	11.64	0.487	146.2	0.375	98220.0	651.6
12/12/01 11:31	307.0	0.347	11.57	0.489	146.9	0.379	98046.0	650.9
12/12/01 11:32	326.4	0.365	11.70	0.478	148.3	0.379	97890.0	647.4
12/12/01 11:33	369.8	0.416	11.66	0.476	149.5	0.383	97878.0	646.9
12/12/01 11:34	404.8	0.457	11.59	0.481	149.7	0.386	97890.0	646.3
12/12/01 11:35	349.6	0.396	11.51	0.488	149.0	0.387	98124.0	645.3
12/12/01 11:36	418.4	0.471	11.60	0.487	148.1	0.382	98100.0	649.0
12/12/01 11:37	559.2	0.632	11.57	0.486	144.4	0.373	98112.0	649.4
12/12/01 11:38	457.9	0.520	11.50	0.488	143.2	0.372	98100.0	652.9
12/12/01 11:39	570.6	0.645	11.58	0.481	145.1	0.375	97758.0	651.2
12/12/01 11:40	493.0	0.557	11.59	0.481	146.9	0.379	97758.0	648.2
12/12/01 11:41	433.6	0.488	11.62	0.480	148.7	0.382	97758.0	652.5
12/12/01 11:42	376.7	0.428	11.54	0.483	147.6	0.382	97758.0	658.7
12/12/01 11:43	369.6	0.419	11.56	0.477	149.1	0.386	97758.0	658.3
12/12/01 11:44	507.6	0.566	11.75	0.467	154.2	0.392	97746.0	657.0
12/12/01 11:45	569.5	0.636	11.72	0.471	155.6	0.397	97740.0	655.6
12/12/01 11:46	466.8	0.525	11.64	0.477	153.0	0.393	97626.0	653.1
Final Average*	**446.7**	**0.503**	**11.62**	**0.479**	**148.6**	**0.382**	**98026.4**	**652.0**
Maximum*	**570.6**	**0.645**	**11.75**	**0.489**	**155.6**	**0.397**	**98652.0**	**658.7**
Minimum*	**303.2**	**0.341**	**11.50**	**0.467**	**143.2**	**0.372**	**97626.0**	**645.3**

*Does not include Invalid Averaging Periods ("N/A")

RUN #6 OUTLET.

Enertec NTDAHS®
Average Values Report
Generated : 12/12/01 14:26

Company: St. Johns Unit 2
Plant:
City/St:
Source: Unit 2

Period Start: 12/12/01 12:48
Period End: 12/12/01 13:09
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Period Start	Average 2outCO_C ppm	Average 2outCO_MM #/M	Average 2outCO2_C %	Average 2outNOX_MM #/M	Average 2outSO2_C ppm	Average 2outSO2_MM #/M	Average 2Stk_kscfh kscfh	Average 2Unit_Load MW
12/12/01 12:48	451.9	0.528	11.20	0.481	140.6	0.375	97848.0	652.3
12/12/01 12:49	507.3	0.589	11.28	0.478	141.3	0.375	97848.0	646.8
12/12/01 12:50	330.7	0.385	11.25	0.490	140.8	0.374	97836.0	642.5
12/12/01 12:51	260.7	0.303	11.29	0.494	139.6	0.370	97938.0	646.8
12/12/01 12:52	267.0	0.312	11.21	0.495	137.8	0.367	97932.0	653.0
12/12/01 12:53	418.4	0.487	11.24	0.490	137.3	0.365	97956.0	650.3
12/12/01 12:54	451.3	0.522	11.32	0.485	139.5	0.368	98052.0	647.3
12/12/01 12:55	487.3	0.561	11.38	0.475	145.3	0.382	98142.0	647.4
12/12/01 12:56	381.3	0.442	11.30	0.487	146.0	0.387	98136.0	649.2
12/12/01 12:57	515.4	0.594	11.36	0.481	145.4	0.383	98136.0	648.8
12/12/01 12:58	753.1	0.871	11.42	0.471	145.9	0.382	97758.0	646.6
12/12/01 12:59	578.0	0.668	11.33	0.474	145.4	0.383	97770.0	644.2
12/12/01 13:00	460.6	0.532	11.33	0.477	145.6	0.384	97746.0	651.5
12/12/01 13:01	356.4	0.414	11.25	0.481	143.4	0.381	97692.0	656.2
12/12/01 13:02	559.2	0.644	11.37	0.470	146.9	0.386	97494.0	656.2
12/12/01 13:03	873.4	0.994	11.49	0.465	150.2	0.391	97494.0	651.7
12/12/01 13:04	869.5	0.992	11.47	0.465	151.3	0.394	97482.0	646.5
12/12/01 13:05	504.3	0.579	11.39	0.478	148.7	0.391	97404.0	647.6
12/12/01 13:06	450.5	0.518	11.39	0.475	146.9	0.386	97392.0	647.7
12/12/01 13:07	550.4	0.629	11.46	0.467	146.9	0.383	97404.0	652.1
12/12/01 13:08	405.4	0.464	11.43	0.475	145.9	0.381	97518.0	649.6
12/12/01 13:09	453.2	0.521	11.38	0.478	145.9	0.384	97848.0	644.6
Final Average*	**494.8**	**0.570**	**11.34**	**0.479**	**144.4**	**0.381**	**97764.8**	**649.0**
Maximum*	**873.4**	**0.994**	**11.49**	**0.495**	**151.3**	**0.394**	**98142.0**	**656.2**
Minimum*	**260.7**	**0.303**	**11.20**	**0.465**	**137.3**	**0.365**	**97392.0**	**642.5**

*Does not include Invalid Averaging Periods ("N/A")

PUN #7 OUTLET

Enertec NTDAHS®
Average Values Report
Generated : 12/12/01 14:27

Company: St. Johns Unit 2
Plant:
City/St:
Source: Unit 2

Period Start: 12/12/01 13:22
Period End: 12/12/01 13:43
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Period Start	Average 2outCO_C ppm	Average 2outCO_MM #/M	Average 2outCO2_C %	Average 2outNOX_MM #/M	Average 2outSO2_C ppm	Average 2outSO2_MM #/M	Average 2Stk_kscfh kscfh	Average 2Unit_Load MW
12/12/01 13:22	440.4	0.507	11.36	0.475	145.1	0.382	98340.0	650.9
12/12/01 13:23	441.6	0.505	11.43	0.473	145.7	0.381	98298.0	649.6
12/12/01 13:24	607.7	0.695	11.44	0.470	146.1	0.382	98298.0	647.2
12/12/01 13:25	612.4	0.695	11.52	0.466	148.2	0.384	98298.0	644.4
12/12/01 13:26	474.8	0.545	11.40	0.475	147.8	0.387	98076.0	646.7
12/12/01 13:27	334.7	0.385	11.39	0.478	146.3	0.384	97992.0	650.7
12/12/01 13:28	294.1	0.338	11.40	0.476	146.4	0.384	97992.0	653.0
12/12/01 13:29	364.6	0.417	11.46	0.471	147.2	0.384	97980.0	652.1
12/12/01 13:30	401.1	0.458	11.48	0.467	147.4	0.384	97536.0	654.2
12/12/01 13:31	359.3	0.412	11.41	0.473	146.4	0.383	97536.0	656.3
12/12/01 13:32	377.0	0.428	11.54	0.465	148.9	0.385	97524.0	654.5
12/12/01 13:33	386.7	0.437	11.58	0.462	149.8	0.387	97524.0	652.1
12/12/01 13:34	531.3	0.603	11.53	0.461	150.8	0.390	97716.0	651.2
12/12/01 13:35	354.0	0.406	11.40	0.471	149.0	0.391	97716.0	651.9
12/12/01 13:36	299.1	0.343	11.42	0.475	147.6	0.386	97728.0	652.2
12/12/01 13:37	305.2	0.345	11.55	0.467	148.4	0.384	97494.0	648.1
12/12/01 13:38	353.7	0.399	11.55	0.469	147.4	0.382	97494.0	643.8
12/12/01 13:39	309.9	0.354	11.47	0.475	145.1	0.378	97494.0	643.8
12/12/01 13:40	263.0	0.302	11.41	0.479	146.1	0.382	97506.0	640.4
12/12/01 13:41	292.2	0.331	11.54	0.471	149.1	0.386	98208.0	641.9
12/12/01 13:42	263.5	0.301	11.45	0.476	147.0	0.384	98184.0	648.0
12/12/01 13:43	279.3	0.321	11.40	0.479	145.5	0.381	98196.0	657.4
Final Average*	**379.3**	**0.433**	**11.46**	**0.472**	**147.3**	**0.384**	**97869.6**	**649.6**
Maximum*	**612.4**	**0.695**	**11.58**	**0.479**	**150.8**	**0.391**	**98340.0**	**657.4**
Minimum*	**263.0**	**0.301**	**11.36**	**0.461**	**145.1**	**0.378**	**97494.0**	**640.4**

*Does not include Invalid Averaging Periods ("N/A")

PW #8 OUTLET

Enertec NTDAHS®
Average Values Report
Generated : 12/12/01 14:29

Company: St. Johns Unit 2
Plant:
City/St:
Source: Unit 2

Period Start: 12/12/01 13:56
Period End: 12/12/01 14:17
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Period Start	Average 2outCO_C ppm	Average 2outCO_MM #/M	Average 2outCO2_C %	Average 2outNOX_MM #/M	Average 2outSO2_C ppm	Average 2outSO2_MM #/M	Average 2Stk_kscfh kscfh	Average 2Unit_Load MW
12/12/01 13:56	338.8	0.385	11.51	0.478	149.4	0.388	98178.0	648.4
12/12/01 13:57	264.0	0.301	11.49	0.481	147.9	0.385	98112.0	649.6
12/12/01 13:58	421.3	0.476	11.57	0.471	148.3	0.383	98124.0	649.9
12/12/01 13:59	479.0	0.542	11.60	0.470	149.3	0.385	98376.0	649.4
12/12/01 14:00	399.2	0.454	11.52	0.472	148.2	0.384	98484.0	652.3
12/12/01 14:01	396.6	0.448	11.59	0.470	149.8	0.386	98460.0	654.4
12/12/01 14:02	452.8	0.510	11.63	0.468	150.6	0.388	98472.0	655.5
12/12/01 14:03	505.3	0.568	11.64	0.466	150.9	0.387	98076.0	652.4
12/12/01 14:04	632.1	0.710	11.66	0.461	151.9	0.389	97656.0	648.3
12/12/01 14:05	542.4	0.607	11.70	0.461	152.2	0.389	97668.0	649.5
12/12/01 14:06	318.5	0.362	11.51	0.476	150.2	0.390	97662.0	656.2
12/12/01 14:07	331.0	0.375	11.57	0.472	148.9	0.385	97638.0	657.3
12/12/01 14:08	492.5	0.552	11.63	0.469	148.9	0.382	97638.0	654.5
12/12/01 14:09	567.4	0.628	11.81	0.465	150.3	0.381	97638.0	646.9
12/12/01 14:10	364.0	0.410	11.61	0.482	149.9	0.386	97626.0	648.5
12/12/01 14:11	263.4	0.299	11.51	0.484	149.9	0.389	97362.0	654.6
12/12/01 14:12	251.8	0.287	11.49	0.480	149.9	0.390	97284.0	651.9
12/12/01 14:13	315.4	0.354	11.66	0.474	152.8	0.391	97284.0	648.8
12/12/01 14:14	468.0	0.523	11.73	0.467	154.3	0.393	97812.0	650.9
12/12/01 14:15	330.5	0.375	11.53	0.478	151.8	0.394	N/A	653.5
12/12/01 14:16	302.8	0.342	11.59	0.476	152.9	0.394	N/A	650.5
12/12/01 14:17	570.9	0.618	11.78	0.464	155.1	0.393	N/A	645.1
Final Average*	**409.4**	**0.460**	**11.61**	**0.472**	**150.6**	**0.388**	**97871.1**	**651.3**
Maximum*	**632.1**	**0.710**	**11.81**	**0.484**	**155.1**	**0.394**	**98484.0**	**657.3**
Minimum*	**251.8**	**0.287**	**11.49**	**0.461**	**147.9**	**0.381**	**97284.0**	**645.1**

*Does not include Invalid Averaging Periods ("N/A")

RUN #9 OUTLET

Enertec NTDAHS®
Average Values Report
Generated : 12/12/01 14:54

Company: St. Johns Unit 2
Plant:
City/St:
Source: Unit 2

Period Start: 12/12/01 14:31
Period End: 12/12/01 14:52
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Period Start	Average 2outCO_C ppm	Average 2outCO_MM #/M	Average 2outCO2_C %	Average 2outNOX_MM #/M	Average 2outSO2_C ppm	Average 2outSO2_MM #/M	Average 2Stk_kscfh kscfh	Average 2Unit_Load MW
12/12/01 14:31	538.1	0.602	11.70	0.465	153.3	0.392	98598.0	657.3
12/12/01 14:32	478.6	0.537	11.66	0.470	153.3	0.393	98574.0	657.0
12/12/01 14:33	466.3	0.522	11.69	0.471	154.2	0.394	98514.0	655.8
12/12/01 14:34	377.5	0.425	11.63	0.474	153.9	0.396	98448.0	652.2
12/12/01 14:35	326.3	0.368	11.62	0.476	154.1	0.396	98460.0	646.1
12/12/01 14:36	251.2	0.283	11.61	0.481	152.7	0.393	98460.0	648.5
12/12/01 14:37	290.2	0.329	11.55	0.480	151.4	0.392	97956.0	652.2
12/12/01 14:38	366.0	0.412	11.62	0.476	150.4	0.387	97800.0	651.9
12/12/01 14:39	330.4	0.372	11.63	0.477	150.6	0.387	97800.0	644.3
12/12/01 14:40	360.7	0.406	11.64	0.476	152.1	0.390	97878.0	645.0
12/12/01 14:41	300.9	0.346	11.61	0.480	152.1	0.392	97932.0	652.1
12/12/01 14:42	242.4	0.274	11.57	0.480	151.9	0.393	97920.0	652.7
12/12/01 14:43	311.1	0.350	11.62	0.480	153.1	0.394	97920.0	646.6
12/12/01 14:44	424.5	0.473	11.75	0.470	154.7	0.393	97770.0	641.7
12/12/01 14:45	226.0	0.255	11.59	0.481	153.9	0.397	97638.0	643.2
12/12/01 14:46	185.9	0.212	11.48	0.491	152.3	0.397	97644.0	650.4
12/12/01 14:47	274.9	0.310	11.62	0.483	154.0	0.396	97650.0	655.1
12/12/01 14:48	359.6	0.405	11.64	0.475	154.7	0.397	98244.0	650.2
12/12/01 14:49	307.9	0.345	11.69	0.474	155.4	0.398	98460.0	649.1
12/12/01 14:50	251.8	0.286	11.67	0.478	155.6	0.399	98460.0	653.4
12/12/01 14:51	224.6	0.254	11.58	0.483	153.9	0.398	98460.0	655.9
12/12/01 14:52	407.5	0.455	11.72	0.473	155.8	0.397	97890.0	654.4
Final Average*	**331.9**	**0.374**	**11.63**	**0.477**	**153.3**	**0.394**	**98112.6**	**650.7**
Maximum*	**538.1**	**0.602**	**11.75**	**0.491**	**155.8**	**0.399**	**98598.0**	**657.3**
Minimum*	**185.9**	**0.212**	**11.48**	**0.465**	**150.4**	**0.387**	**97638.0**	**641.7**

*Does not include Invalid Averaging Periods ("N/A")

RUN #10 OUTLET

Enertec NTDAHS®
Average Values Report
Generated : 12/12/01 15:56

Company: St. Johns Unit 2
Plant:
City/St:
Source: Unit 2

Period Start: 12/12/01 15:09
Period End: 12/12/01 15:30
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Period Start	Average 2outCO_C ppm	Average 2outCO_MM #/M	Average 2outCO2_C %	Average 2outNOX_MM #/M	Average 2outSO2_C ppm	Average 2outSO2_MM #/M	Average 2Stk_kscfh kscfh	Average 2Unit_Load MW
12/12/01 15:09	297.9	0.336	11.61	0.490	150.1	0.386	99006.0	650.7
12/12/01 15:10	406.1	0.458	11.60	0.486	151.1	0.389	98772.0	653.3
12/12/01 15:11	404.1	0.456	11.60	0.483	151.4	0.390	98772.0	654.2
12/12/01 15:12	493.4	0.556	11.61	0.476	153.1	0.394	98784.0	653.8
12/12/01 15:13	558.3	0.628	11.63	0.478	153.3	0.394	98484.0	650.9
12/12/01 15:14	598.8	0.668	11.73	0.475	153.7	0.392	98184.0	651.0
12/12/01 15:15	384.9	0.432	11.66	0.480	151.2	0.387	98196.0	649.5
12/12/01 15:16	341.7	0.385	11.62	0.483	150.6	0.387	98196.0	650.7
12/12/01 15:17	419.2	0.469	11.71	0.483	150.4	0.384	98196.0	650.9
12/12/01 15:18	401.7	0.450	11.68	0.482	150.1	0.384	98184.0	650.4
12/12/01 15:19	430.5	0.480	11.74	0.475	152.1	0.387	98196.0	651.5
12/12/01 15:20	454.0	0.510	11.66	0.475	152.3	0.391	98184.0	654.3
12/12/01 15:21	319.1	0.361	11.67	0.483	151.2	0.387	98178.0	654.2
12/12/01 15:22	294.1	0.330	11.69	0.488	152.3	0.389	98232.0	656.6
12/12/01 15:23	414.0	0.461	11.76	0.486	153.8	0.391	98298.0	656.3
12/12/01 15:24	574.7	0.641	11.73	0.477	156.8	0.399	98316.0	654.5
12/12/01 15:25	464.3	0.516	11.78	0.469	156.6	0.398	98286.0	649.2
12/12/01 15:26	335.1	0.373	11.77	0.478	155.8	0.397	98316.0	647.7
12/12/01 15:27	224.4	0.253	11.63	0.489	153.4	0.394	98298.0	647.5
12/12/01 15:28	245.9	0.276	11.64	0.492	154.1	0.396	98304.0	647.6
12/12/01 15:29	358.6	0.402	11.69	0.486	155.1	0.397	98376.0	647.9
12/12/01 15:30	362.0	0.405	11.70	0.484	155.0	0.396	98388.0	646.0
Final Average*	**399.2**	**0.448**	**11.68**	**0.482**	**152.9**	**0.391**	**98370.3**	**651.3**
Maximum*	**598.8**	**0.668**	**11.78**	**0.492**	**156.8**	**0.399**	**99006.0**	**656.6**
Minimum*	**224.4**	**0.253**	**11.60**	**0.469**	**150.1**	**0.384**	**98178.0**	**646.0**

*Does not include Invalid Averaging Periods ("N/A")

ST. JOHNS RIVER POWER PARK
BOILER CONTROL ROOM DATA

UNIT # 1 DATE: 12-13-01

PARAMETER	UNITS	Readings (30 minute intervals)					
Person Recording Data		DB	DB	DB	DB	DB	DB
Time		0800	08:30	09:00	09:30	10:00	10:30
Steam Flow	Lb/Hr x 10	4.55	4.51	4.52	4.53	4.54	4.54
Air Flow	%	65	67	67	68	69	69
Generator Load (Gross)	Megawatts	668	662	664	669	660	669
Boiler Themal Demand	Megawatts	674	674	674	674	674	674
O2 Flue gas	%	2.4	3.0	3.1	3.3	3.4	3.3
Fuel Flow	%	96.2	96.2	96.2	96.4	95.4	95.7
Coal Totalizer	Tons						
A	—	78850	78868	78886	7892	78930	78950
B	—	78178	78196	78203	78240	78258	78276
C	—	79486	79504	79522	79548	79566	79586
D	—	12065	12065	12065	12065	12065	12065
E	—	92742	92760	92778	92804	92822	92842
F	—	78354	78370	78386	78414	78432	78452
G	—	93024	93042	93058	93086	93104	93122

ST. JOHNS RIVER POWER PARK
BOILER CONTROL ROOM DATA

UNIT # 1 DATE: 12-13-01

PARAMETER	UNITS	Readings (30 minute intervals)					
Person Recording Data		DB	DB	DB	DB	DB	DB
Time		11:00	11:30	12:00	12:30	13:00	13:30
Steam Flow	Lb/Hr x 10	4.56	4.55	4.53	4.52	4.54	4.54
Air Flow	%	69	69	70	69	69	69
Generator Load (Gross)	Megawatts	663	664	663	658	663	668
Boiler Themal Demand	Megawatts	674	674	674	674	674	674
O2 Flue gas	%	3.5	3.6	3.7	3.7	3.5	3.6
Fuel Flow	%	95.5	95	95.8	96.8	96.2	96.8
Coal Totalizer	Tons						
A	—	78970	78988	79012	79030	79050	79068
B	—	78296	78316	78340	78356	78376	78396
C	—	79606	79626	79648	79666	79686	79704
D	—	12065	12065	12065	12065	12065	12065
E	—	92862	92880	92904	92922	92942	92962
F	—	78472	78492	78514	78532	78552	78570
G	—	93142	93162	93186	93204	93224	93242

ST. JOHNS RIVER POWER PARK
BOILER CONTROL ROOM DATA

UNIT # 1 DATE: 12-13-01

PARAMETER	UNITS	Readings (30 minute intervals)					
Person Recording Data		DB	DB	DB	DB	DB	DB
Time		14:00	14:30	15:00	15:30	16:00	16:30
Steam Flow	Lb/Hr x 10	4.55	4.54	4.59	4.58	4.54	4.54
Air Flow	%	69	69	69	69	69	68
Generator Load (Gross)	Megawatts	664	665	661	664	664	664
Boiler Themal Demand	Megawatts	674	674	674	674	674	674
O2 Flue gas	%	3.7	3.5	3.5	3.7	3.6	3.6
Fuel Flow	%	95.0	95.9	94.4	94.3	94.3	96.1
Coal Totalizer	Tons						
A	—	79090	79110	79136	79154	79172	79190
B	—	78416	78436	78462	78480	78498	78516
C	—	79726	79746	79772	79790	79808	79826
D	—	12065	12065	12065	12065	12065	12065
E	—	92982	93002	93028	93046	93066	93082
F	—	78592	78612	78638	78654	78672	78688
G	—	93262	93284	93310	93328	93346	93364

ST. JOHNS RIVER POWER PARK
BOILER CONTROL ROOM DATA
UNIT # 1 DATE: 12-13-01

PARAMETER	UNITS	Readings (30 minute intervals)					
Person Recording Data		DB	DB				
Time		17:00	17:30				
Steam Flow	Lb/Hr x 10	4.54	4.54				
Air Flow	%	69	69				
Generator Load (Gross)	Megawatts	665	662				
Boiler Themal Demand	Megawatts	674	674				
O2 Flue gas	%	3.7	3.7				
Fuel Flow	%	97.5	94.8				
Coal Totalizer	Tons						
A	—	79210	79226				
B	—	78576	78552				
C	—	79846	79862				
D	—	12065	12065				
E	—	93102	93120				
F	—	78708	78724				
G	—	93384	93400				

ST. JOHNS RIVER POWER PARK
FLUE GAS DESULFURIZATION
OPERATIONAL PARAMETERS

Date: 12/13/01

UNIT # ONE

Initials:

HOUR	PACKING DIFFERENTIAL PRESSURE (inches H2O column) A	B	C
0000			0/5
0100			
0200			
0300			
0400			
0500			
0600			
0700			
0800	5.0	5.4	
0900	5.1	5.5	
1000	5.2	5.7	
1100	5.2	5.7	
1200	5.2	5.7	
1300	5.2	5.7	
1400	5.2	5.7	
1500	5.2	5.7	
1600	5.2	5.6	
1700	5.2	5.6	
1800	6.2	5.7	
1900	5.2	5.6	
2000	5.1	5.5	
2100	5.1	5.6	
2200	5.1	5.6	
2300	4.9	5.3	

START 1123 15
1248

Daily Water System Use: _____ (Total Gallons) / 1440 (min/day) = _____ GPM

COMMENTS:

ST. JOHNS RIVER POWER PARK
BOILER CONTROL ROOM DATA
UNIT # Two DATE: 12-12-01

PARAMETER	UNITS	Readings (30 minute intervals)					
Person Recording Data		Peterson	Rowell	Rowell	Peterson	Rowell	Peterson
Time		0900	0930	1000	1030	1100	1130
Steam Flow	Lb/Hr x 10	4.62	4.62	4.66	4.63	4.62	4.71
Air Flow	%	72	73	73	72	72	72
Generator Load (Gross)	Megawatts	649	651	657	654	649	657
Boiler Themal Demand	Megawatts	664	664	664	664	664	664
O2 Flue gas	%	3.21 / 3.55	3.43 / 3.42	3.57 / 3.61	3.83 / 4.03	3.81 / 3.90	3.81 / 3.90
Fuel Flow	%	100.2	100	100.5	100.2	100.6	100.6
Coal Totalizer	Tons						
A		560.8	560	584.4	626.3	638.4	650.7
B		9,732	9,856	9,880	9,902	9,936	9,969
C		94982	95012	95038	95056	95077	95102
D		9347	9347	9347	9379	9398	9407
E		76904	76998	76998	76998	76998	76998
F		92854	92902	92902	92968	92972	92982
G		94778	94766	94791	94810	94832	94854

ST. JOHNS RIVER POWER PARK
BOILER CONTROL ROOM DATA

UNIT # 2 DATE: 12-12-01

PARAMETER	UNITS	Readings (30 minute intervals)					
Person Recording Data							
Time		1130	1230	1330	1430	1530	
Steam Flow	Lb/Hr x 10^6	4.64	4.63	4.69	4.64	4.66	4.66
Air Flow	%	73	73	73	73	73	72
Generator Load (Gross)	Megawatts	653	650	650	655	650	655
Boiler Thermal Demand	Megawatts	654	654	654	654	654	654
O2 Flue gas	%	3.45	3.60	3.62	3.64	3.64	3.67
Fuel Flow	%	100	99.7	100.1	100.6	100.1	100.3
Coal Totalizer	Tons						
A		697	699.3	719.9	743.9	763.5	779.4
B		92410	92462	92514	92567	92659	92752
C		95124	95176	95170	95281	95312	95336
D		93997	93997	93997	93997	93997	93997
E		77933	77984	78033	78047	78092	78093
F		93514	93536	93558	93582	93602	93624
G		94796	94896	94993	95093	95193	95284

ST. JOHNS RIVER POWER PARK
BOILER CONTROL ROOM DATA
UNIT # Two **DATE:** 12-12-01

PARAMETER	UNITS	Readings (30 minute intervals)					
Person Recording Data		Peterson	Peterson	Peterson	Peterson	[illegible]	[illegible]
Time		1400	1430	1500	1530	1600	[illegible]
Steam Flow	Lb/Hr x 10	4.68	4.69	4.59	4.48	3.89	
Air Flow	%	72	73	74	6[illegible]	62	
Generator Load (Gross)	Megawatts	657	650	654	630	[illegible]	
Boiler Themal Demand	Megawatts	664	664	664	619	5[illegible]	
O2 Flue gas	%	3.4 / 2.[illegible]	3.2 / 2.83	3.19 / 3.[illegible]	3.[illegible] / 3.49	3.3[illegible] / 3.[illegible]	
Fuel Flow	%	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
Coal Totalizer	Tons						
A		9[illegible]	8[illegible]	853	8[illegible]5	8[illegible]4	
B		[illegible]	92127	92[illegible]	93[illegible]2	92[illegible]	
C		[illegible]	[illegible]	[illegible]	[illegible]	95342	
D		9342	93[illegible]	9[illegible]1	9348	93[illegible]	
E		7[illegible]	77.14	7[illegible].26	77[illegible]	7[illegible]	
F		93144	93170	93[illegible]	93212	93226	
G		9[illegible]	9[illegible]	9[illegible]	9[illegible]	9[illegible]	

ST. JOHNS RIVER POWER PARK
FLUE GAS DESULFURIZATION
OPERATIONAL PARAMETERS

Date: 12/12/01

UNIT # _____ Initials: _____

HOUR	PACKING DIFFERENTIAL PRESSURE (inches H2O column) A	B	C
0000			
0100			
0200			
0300			
0400			
0500			
0600	NOT WORKING	O/S	
0700			
0800	7.0		6.3
0900			6.1
1000			6.4
1100			6.4
1200			6.2
1300			6.1
1400			6.0
1500			6.4
1600			6.5
1700			
1800			
1900			
2000			
2100			
2200			
2300			

1100 START

Daily Water System Use: _____ (Total Gallons) / 1440 (min/day) = _____ GPM

COMMENTS: _____


GCI