



TAMPA ELECTRIC

January 30, 2004

Ms. Deborah Getzoff
Southwest District
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

Via FedEx
Airbill No. 7905 3402 9178

Mr. Jerry Campbell
The Environmental Protection Commission
of Hillsborough County
1410 North 21st Street
Tampa, Florida 33605

Via FedEx
Airbill No. 7925 6039 9194

**Re: Tampa Electric Company
Quarter III & IV, 2003
Bayside Semi-Annual Excess Emissions & Subpart GG Report
Air Construction Permit #0570040-015-AC
Air Permit Number: PSD-FL-301A
AIRS #0570040, E.U. ID#020, 021, 022**

Dear Ms. Getzoff and Mr. Campbell:

As required by Section III, Specific Condition 25 and Section IV Appendix XS of the above referenced permit, TEC shall submit a semi-annual report to the Department of Environmental Protection and the Environmental Protection Commission of Hillsborough County, by January 30th of each year for Quarters 3 and 4, for each gas turbine summarizing the CEMS data and equipment. The report shall include: the monthly sulfur content (Attachment 1), the NO_x Excess Emissions Report, the 24-hour block average for each day of operation; the number of 1-hour emission averages excluded from each 24-hour average; the emissions due to monitor downtime; the reason for any monitor downtime; unusual maintenance or repair of the CEMS; a summary of any RATA tests performed, an updated general range of ammonia flow rates required to meet NO_x emissions limitations over the range of gas turbine load conditions (Attachments 2-4) and the Data Assessment Report (DAR) (Attachment 5) as required by Specific Condition 23.e.

Ms. Deborah Getzoff
Mr. Jerry Campbell
January 30, 2004
Page 2 of 2

If there are any questions regarding this report, please contact Laurie Pence or me at (813) 641-5060.

Sincerely,

Laurie A. Pence

⁰³¹
Laura R. Crouch
Manager – Air Programs
Environmental, Health & Safety

EA/br/RPT001BPS Exc. Emis./GG Report Qtr 3/4, 03

Enclosures



ATTACHMENT 1

**BAYSIDE POWER STATION
MONTHLY SULFUR CONTENT REPORT**

Date	Sulfur Content (grains per 100 SCF)
July-03	0.0954
August-03	0.0922
September-03	0.0508

**BAYSIDE POWER STATION
MONTHLY SULFUR CONTENT REPORT**

Date	Sulfur Content (grains per.100.SCF)
October-03	0.0416
November-03	0.0592
December-03	0.0531

Note: 10/30/03-11/12/03 vendor analyzer out



ATTACHMENT 2

**SUMMARY REPORT – NO_x EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE
NSPS SUBPART GG**

Pollutant: NO_x - Combustion Turbine

Emission Limitation: 3.5 ppmvd @ 15% O₂ on a 24-hour block average

Reporting period dates: From 07/01/03 to 12/31/03

Company: Tampa Electric Company
Address: P.O. Box 111
Tampa, FL 33601-0111

Monitor Manufacturer
and Model No.:

Thermal Environmental 42CLS

Process Unit
Description : 169 MW Combined Cycle
Combustion Turbine
(CT 1A)

Date of Latest CMS
Certification or Audit

October 2003

Total source operating
time in reporting period¹:

3331.5

Emission Data Summary ¹	CMS Performance Summary ²
1. Duration of excess emissions in reporting period due to:	1. CMS downtime in reporting period due to:
a. Startup/Shutdown <u>223</u>	a. Monitor equipment malfunctions <u>0</u>
b. Control equipment problems <u>0</u>	b. Non-Monitor equipment malfunctions <u>0</u>
c. Process problems <u>4</u>	c. Quality assurance calibration <u>36</u>
d. Other known causes <u>20</u>	d. Other known causes <u>10</u>
e. Unknown causes <u>0</u>	e. Unknown causes <u>0</u>
2. Total duration of excess emission <u>247</u>	2. Total CMS Downtime <u>46</u>
3. <u>Total duration of excess emissions x (100)</u> Total source operating time <u>7.0 %</u>	3. <u>Total CMS Downtime x (100)</u> Total source operating time <u>1.0 %</u>

Note: On a separate page, describe any changes to CMS, process or controls during last 6 months. For each quarter, summarize the ammonia injection rates over various loads and the data excluded due to startups, shutdowns, and malfunctions.

This form is used for reporting excess emission according to New Source Performance Standard (NSPS) Subpart GG only. (CO is not a regulated by Subpart GG and is reported under the semi-annual excess emission report required by Section III, permit condition 25.)

- For gases record all times in hours.
- For the reporting period: if the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in 60.7(c) shall be submitted.

TEC Note: The summary report form and the excess emission report required will also be submitted in the semi-annual report.

BAYSIDE POWER STATION - CT 1A
24 - HOUR BLOCK AVERAGE - QUARTER 3, 2003

Date	24-hour block CO	24-hour block NOx
07/01/2003	0.7	3.0
07/02/2003	0.3	3.0
07/03/2003	0.3	3.0
07/04/2003	0.4	3.0
07/05/2003	0.3	3.0
07/06/2003	0.3	3.0
07/07/2003	0.4	3.0
07/08/2003	0.6	3.1
07/09/2003	0.6	3.5
07/10/2003	0.8	3.1
07/11/2003	0.5	2.9
07/12/2003	0.7	3.0
07/13/2003	0.6	3.0
07/14/2003	0.7	3.0
07/15/2003	0.7	3.0
07/16/2003	0.7	3.0
07/17/2003	0.8	3.0
07/18/2003	0.7	3.0
07/19/2003	0.8	3.0
07/20/2003	0.8	3.0
07/21/2003	0.9	3.0
07/22/2003	0.8	3.0
07/23/2003	0.8	3.0
07/24/2003	0.9	3.0
07/25/2003	1.0	3.0
07/26/2003	1.0	3.0
07/27/2003	1.1	3.0
07/28/2003	4.3	3.2
07/29/2003	1.2	3.3
07/30/2003	3.0	1.1
07/31/2003	1.3	3.2
08/01/2003	0.7	3.1
08/02/2003	0.7	3.0
08/03/2003	0.8	3.0
08/04/2003	0.8	3.1
08/05/2003	0.8	3.0
08/06/2003	0.9	3.1
08/07/2003	0.8	2.9
08/08/2003	0.7	2.9
08/09/2003	0.8	3.0
08/10/2003	0.8	3.0
08/11/2003	0.9	3.1
08/12/2003	1.0	3.0
08/13/2003	1.1	2.7
08/14/2003	0.9	3.1
08/15/2003	1.1	3.0
08/16/2003	1.2	2.9
08/17/2003	1.3	2.9
08/18/2003	0.7	2.5

-20

08/19/2003	0.4	2.9
08/20/2003	0.4	2.9
08/21/2003	0.4	2.9
08/22/2003	0.4	2.9
08/23/2003	0.5	2.9
08/24/2003	0.6	3.0
08/25/2003	0.6	2.9
08/26/2003	0.8	3.0
08/27/2003	0.7	2.9
08/28/2003	0.7	2.9
08/29/2003	0.8	2.7
08/30/2003	0.7	2.9
08/31/2003	0.8	2.9
09/01/2003	1.4	3.4
09/02/2003	0.8	2.9
09/03/2003	0.9	3.0
09/04/2003	1.0	2.9
09/05/2003	0.9	2.9
09/06/2003	0.9	2.9
09/07/2003	1.1	2.9
09/08/2003	1.2	2.8
09/09/2003	1.1	2.9
09/10/2003	0.9	2.9
09/11/2003	1.0	2.9
09/12/2003	1.0	2.9
09/13/2003	1.1	2.4
09/14/2003	1.1	2.9
09/15/2003	1.1	2.9
09/16/2003	0.6	2.9
09/17/2003	0.4	2.9
09/18/2003	0.5	2.9
09/19/2003	0.6	2.9
09/20/2003	0.5	2.9
09/21/2003	0.5	2.9
09/22/2003	0.6	2.9
09/23/2003	0.7	3.0
09/24/2003	0.7	2.9
09/25/2003	0.7	2.9
09/26/2003	0.7	2.9
09/27/2003	0.7	2.9
09/28/2003	0.7	2.9
09/29/2003	0.7	2.9
09/30/2003	0.8	2.9

410

31
 31
 30
 92 operating days
 not
 3.1 to 3.5
 3.0 or less

81

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25

CO
 1.9 ppm or less 16

**BAYSIDE POWER STATION - CT 1A
EXCLUDED DATA - QUARTER 3, 2003**

Date	Hours Data Excluded	NOx Value of Excluded Data	CO Value of Excluded Data	Reason for Exclusion
07/01/2003	2200	5.9	20.6	Shutdown
07/02/2003	0900	47.8	197.6	Start-up
07/08/2003	2300	10.2	86.4	Shutdown
07/09/2003	0900	27.6	155.8	Start-up
07/11/2003	0100	28.0	1241.0	Invalid Hour
	0900	39.7	975.3	Start-up
	1000	52.1	877.1	Start-up
	1100	22.2	157.9	Malfunction
	1700	9.6	278.6	Shutdown
07/12/2003	0100	39.7	205.0	Shutdown
07/14/2003	0300	44.9	649.4	Shutdown
	0600	46.1	368.4	Start-up
	0700	18.0	41.9	Start-up
07/15/2003	2300	40.3	604.0	Shutdown
07/16/2003	0700	28.3	118.0	Start-up
07/17/2003	1900	24.0	327.6	Shutdown
07/18/2003	1200	46.6	300.9	Start-up
	1300	14.7	3.9	Start-up
	1900	31.9	179.5	Shutdown
07/19/2003	1000	21.1	359.1	Start-up
	1100	35.9	266.6	Start-up
	2200	6.2	38.2	Shutdown
	2300	2.7	2756.9	Shutdown
07/20/2003	1300	38.6	430.8	Start-up
	1400	15.4	12.7	Start-up
07/22/2003	2200	6.2	35.3	Shutdown
	2300	4.4	2480.5	Shutdown
07/23/2003	0800	7.1	525.5	Start-up
	0900	24.3	150.2	Start-up
07/24/2003	2300	8.2	175.4	Shutdown
07/25/2003	0700	38.4	362.9	Start-up
	0800	20.0	55.1	Start-up
07/26/2003	2100	11.0	232.1	Shutdown
07/27/2003	0900	35.0	380.1	Start-up
	1000	10.2	24.8	Start-up
07/29/2003	0800	25.1	111.8	Start-up
07/30/2003	2400	41.9	741.2	Shutdown
07/31/2003	0800	25.6	185.7	Start-up
	2300	11.9	226.7	Shutdown
08/01/2003	0900	24.4	429.1	Start-up
	1000	22.3	95.4	Start-up
08/04/2003	2400	11.2	358.1	Shutdown
08/05/2003	0800	24.1	148.8	Start-up
	2400	6.7	72.1	Shutdown
08/06/2003	0700	15.2	94.7	Start-up
	2300	8.5	106.7	Shutdown
08/07/2003	0800	35.1	242.2	Start-up
08/10/2003	2400	15.8	605.5	Shutdown
08/11/2003	0600	34.5	132.3	Start-up
	2300	20.2	322.2	Shutdown
08/12/2003	0700	48.5	336.4	Start-up
	2400	25	353	Shutdown
08/13/2003	0700	67.6	189.6	Start-up
	0800	5.2	*	Start-up
	2300	11.3	452.8	Shutdown
08/14/2003	0800	20.3	153.9	Start-up
	2300	6.7	51.7	Shutdown
	2400	8.4	2531.7	Shutdown
08/15/2003	0700	22.7	161.2	Start-up
08/19/2003	2200	12	162.6	Shutdown
08/20/2003	0800	38.8	438.5	Start-up

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62		0900	9.3	5.8	Start-up
		2400	6.8	215.1	Shutdown
	08/21/2003	1300	25.3	175.5	Start-up
	08/22/2003	1900	5.5	20.7	Shutdown
		2000	20.7	1431.6	Shutdown
	08/23/2003	1000	*	88	Start-up
		1100	28.8	138.2	Start-up
		2300	15.6	400.2	Shutdown
70	08/24/2003	1000	33.7	259.7	Start-up
	08/27/2003	0100	27.3	1157.9	Shutdown
		0900	20.1	157.9	Start-up
	08/28/2003	2200	35.5	721.1	Shutdown
	08/29/2003	0700	40.6	334.3	Start-up
		0800	6.1	*	Start-up
		2300	10.6	405.3	Shutdown
	08/30/2003	0900	33.2	215.2	Start-up
	08/31/2003	2300	18.9	447.5	Shutdown
	09/01/2003	0800	17.8	528.6	Start-up
80		0900	22.2	108.1	Start-up
	09/02/2003	0200	5.5	12.9	Shutdown
		0300	36.9	1403.3	Shutdown
		0700	29.1	80.4	Start-up
		2300	9.4	109.2	Shutdown
	09/03/2003	0600	22.2	500.8	Start-up
		0700	13.2	42.9	Start-up
		2300	16.9	755.2	Shutdown
	09/04/2003	0600	35.5	184	Start-up
		2100	6.1	32.3	Shutdown
90		2200	2.7	2415.8	Shutdown
	09/05/2003	0700	25.2	134.4	Start-up
	09/08/2003	0100	6.1	54.7	Shutdown
		0600	14.7	69.3	Start-up
	09/12/2003	1300	9	58.8	Malfunction
		1400	17.1	62.9	Malfunction
		2300	15.7	434.8	Shutdown
	09/13/2003	0900	22.6	135.7	Start-up
	09/14/2003	0000	7	269.6	Shutdown
		0800	8.9	516.3	Start-up
100		0900	18.6	100.9	Start-up
	09/17/2003	2300	6.3	46.9	Shutdown
	09/18/2003	0000	*	2304.2	Shutdown
		0600	41.1	243.3	Start-up
	09/19/2003	0100	9.1	131.6	Shutdown
		0700	17.9	335.3	Start-up
		0800	16.7	58.2	Start-up
		2000	7.1	66.1	Shutdown
	09/20/2003	0700	15.2	446.1	Start-up
		0800	27.2	153.7	Start-up
110	09/21/2003	0100	15.4	324.9	Shutdown
		0800	22	112.8	Start-up
	09/22/2003	0000	7.9	150.8	Shutdown
		0700	33.7	424.1	Start-up
		0800	14.5	54.7	Start-up
	09/24/2003	2300	18.6	265.8	Shutdown
	09/25/2003	0600	34.5	338.2	Start-up
		0700	12.4	33.5	Start-up
	09/27/2003	0000	40.3	703.4	Shutdown
		0800	35.4	363.2	Start-up
120		0900	16.5	49.7	Start-up
	09/28/2003	0000	18	345.8	Shutdown
		0800	33.7	314	Start-up
		0900	15.3	42.5	Start-up
	09/30/2003	0000	10.3	135.9	Shutdown
		0700	23.6	361.7	Start-up
		0800	16	49.8	Start-up

W
W

Malfunction - 3

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25

* Data not excluded.

NOx: 40 CFR 75, Appendix B
 CO: 40 CFR 60, Appendix F

RATA data required pursuant to these CFRs

MONITORING DATA CHECKING SOFTWARE 4.1 BETA
 TEST SUMMARY REPORT

05/28/2003

PAGE 1

ORIS Code: 7873 State: FL
 Facility Name: BAYSIDE County: HILLSBOROUGH

Unit/ Stack	Sys Comp Test ID Comp/Sys Parm Type Type	Reported Recalculated		Hour/ End Date	Test Load Time #	Test Lvls	Reason Result	Test Result		
CT1A	/113 NOX	RATA (RT 610-616)		04/23/2003	1519	1	1	C	Pass-APS	Pass-APS

MONITORING DATA CHECKING SOFTWARE 4.1 BETA
 RATA REPORT (RT 610/611) PAGE 2

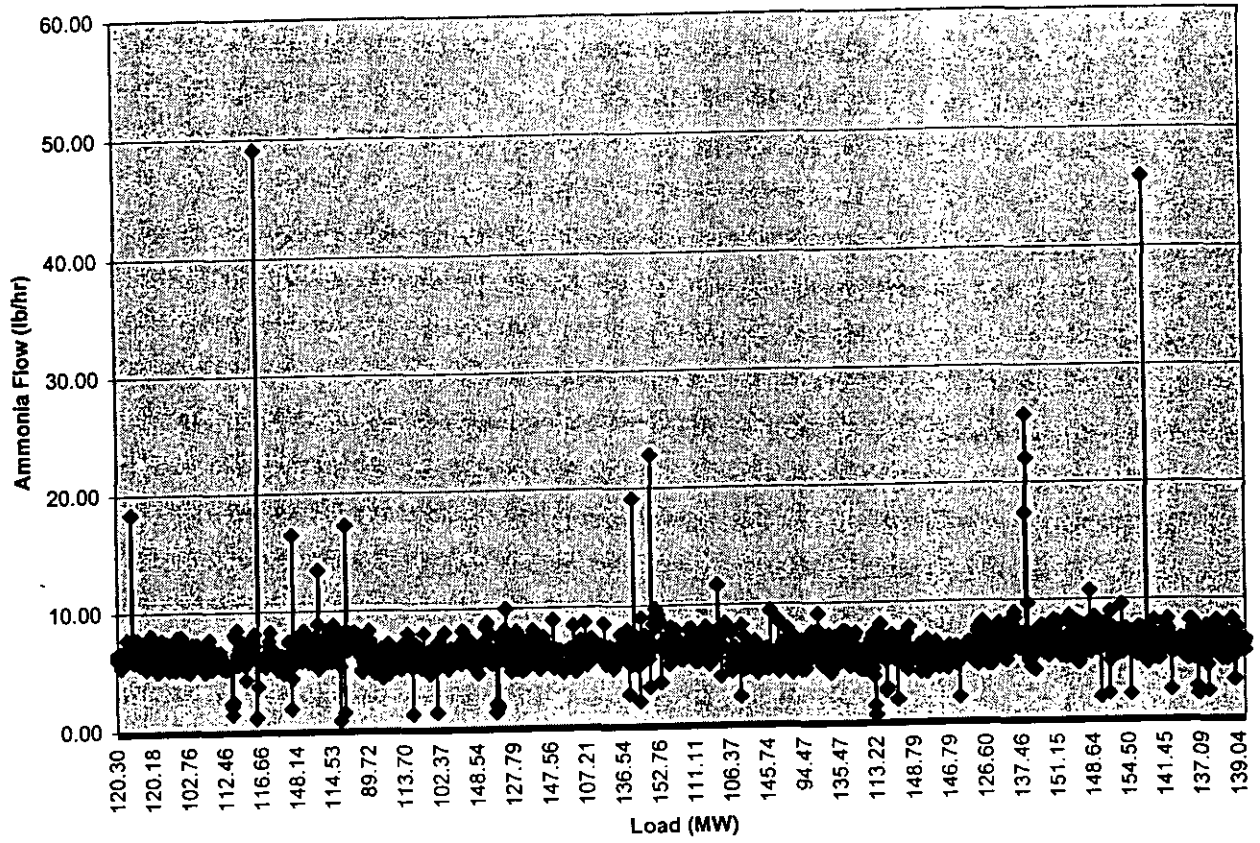
ORIS Code: 7873 Facility: BAYSIDE State: FL
 Unit/Stack ID: CT1A System ID: 113 Parameter: NOX
 Test End Date/Time: 04/23/2003 1519 Test No.: 1 # of Operating Levels: 1 Units of Measure: LB/MMBTU
 Reason for Test: C
 Performance Spec: <= 10.0% Next RATA: Four Op Qtrs
 Recalc. Results: Pass-APS % RA:12.77 Mean Diff: 0.001 BAF: 1.111
 Reported Results: Pass-APS % RA:12.77 Mean Diff: 0.001 BAF: 1.111

Operating Level: H

Run	Start Date	End Run Time	End Date	Reference Time	Status	Monitoring Method	Gross Load Value	or Velocity
1	04/23/2003	1023	04/23/2003	1044	1	0.012	0.011	162
2	04/23/2003	1054	04/23/2003	1115	1	0.012	0.011	162
3	04/23/2003	1128	04/23/2003	1149	1	0.012	0.011	161
4	04/23/2003	1212	04/23/2003	1233	1	0.012	0.011	160
5	04/23/2003	1247	04/23/2003	1308	1	0.013	0.011	160
6	04/23/2003	1323	04/23/2003	1344	1	0.012	0.011	159
7	04/23/2003	1355	04/23/2003	1416	1	0.012	0.011	158
8	04/23/2003	1427	04/23/2003	1448	1	0.012	0.011	158
9	04/23/2003	1458	04/23/2003	1519	1	0.013	0.011	157

Summary Statistics	Reported	Recalculated
Mean of Monitoring System	0.011	0.011
Mean of Reference Method Values	0.012	0.012
Mean of Difference	0.001	0.001
Standard Deviation of Difference	0.000	0.000
Confidence Coefficient	0.000	0.000
T-Value	2.306	2.306
Relative Accuracy:	12.77	12.77
Bias Adjustment Factor	1.111	1.111
APS Flag	1	1
Indicator of Normal Op. Level	N	N
Gross Unit Load or Velocity	160	160
Reference Method Used	7e,3a	

Unit 1A Load vs Ammonia Flow



Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 24

**SUMMARY REPORT – NO_x EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE
NSPS SUBPART GG**

Pollutant: NO_x - Combustion Turbine

Emission Limitation: 3.5 ppmvd @ 15% O₂ on a 24-hour block average

Reporting period dates: From 07/01/03 to 12/31/03

Company: Tampa Electric Company
Address: P.O. Box 111
Tampa, FL 33601-0111

Monitor Manufacturer
and Model No.:

Thermal Environmental 42CLS

Process Unit
Description : 169 MW Combined Cycle
Combustion Turbine
(CT 1B)

Date of Latest CMS
Certification or Audit

October 2003

Total source operating
time in reporting period¹:

3201.75

Emission Data Summary ¹		CMS Performance Summary ²	
1. Duration of excess emissions in reporting period due to:		1. CMS downtime in reporting period due to:	
a. Startup/Shutdown	<u>210</u>	a. Monitor equipment malfunctions	<u>0</u>
b. Control equipment problems	<u>0</u>	b. Non-Monitor equipment malfunctions	<u>9</u>
c. Process problems	<u>0</u>	c. Quality assurance calibration	<u>0</u>
d. Other known causes	<u>0</u>	d. Other known causes	<u>0</u>
e. Unknown causes	<u>0</u>	e. Unknown causes	<u>0</u>
2. Total duration of excess emission	<u>210</u>	2. Total CMS Downtime	<u>9</u>
3. <u>Total duration of excess emissions x (100)</u> Total source operating time	<u>7 %</u>	3. <u>Total CMS Downtime x (100)</u> Total source operating time	<u>0 %</u>

Note: On a separate page, describe any changes to CMS, process or controls during last 6 months. For each quarter, summarize the ammonia injection rates over various loads and the data excluded due to startups, shutdowns, and malfunctions.

This form is used for reporting excess emission according to New Source Performance Standard (NSPS) Subpart GG only. (CO is not a regulated by Subpart GG and is reported under the semi-annual excess emission report required by Section III, permit condition 25.)

- For gases record all times in hours.
- For the reporting period: if the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in 60.7(c) shall be submitted.

TEC Note: The summary report form and the excess emission report required will also be submitted in the semi-annual report.

BAYSIDE POWER STATION - CT 1B
24 - HOUR BLOCK AVERAGE - QUARTER 3, 2003

Date	24-hour block CO	24-hour block NOx
07/01/2003	1.1	3.2
07/02/2003	1.1	3.0
07/03/2003	1.3	3.1
07/04/2003	1.1	3.0
07/05/2003	1.1	3.0
07/06/2003	1.1	3.0
07/07/2003	1.0	3.2
07/08/2003	1.1	3.0
07/09/2003	1.2	3.1
07/10/2003	0.9	3.0
07/11/2003	0.9	3.0
07/12/2003	1.0	3.0
07/13/2003	0.9	3.0
07/14/2003	1.0	2.9
07/15/2003	0.9	3.0
07/16/2003	1.0	3.1
07/17/2003	1.2	3.3
07/18/2003	0.9	3.1
07/19/2003	Offline	Offline
07/20/2003	0.0	0.0
07/21/2003	1.0	3.0
07/22/2003	1.0	3.0
07/23/2003	1.0	3.0
07/24/2003	1.0	3.0
07/25/2003	1.0	3.0
07/26/2003	1.0	3.0
07/27/2003	1.0	3.0
07/28/2003	1.0	3.0
07/29/2003	1.1	3.5
07/30/2003	1.0	2.9
07/31/2003	1.0	3.0
08/01/2003	1.1	3.0
08/02/2003	1.0	3.0
08/03/2003	Offline	Offline
08/04/2003	1.3	3.3
08/05/2003	1.1	3.0
08/06/2003	1.1	3.0
08/07/2003	1.1	3.0
08/08/2003	1.1	2.9
08/09/2003	1.2	2.9
08/10/2003	1.1	3.0
08/11/2003	1.2	3.0
08/12/2003	1.2	3.0
08/13/2003	1.2	3.0
08/14/2003	1.2	3.0
08/15/2003	1.2	3.0
08/16/2003	1.2	2.9
08/17/2003	1.4	3.2
08/18/2003	1.3	2.9

08/19/2003	1.3	2.9
08/20/2003	1.3	3.1
08/21/2003	1.3	2.9
08/22/2003	Offline	Offline
08/23/2003	0.7	3.0
08/24/2003	0.6	3.0
08/25/2003	0.7	2.9
08/26/2003	0.9	2.7
08/27/2003	0.7	3.0
08/28/2003	0.7	3.0
08/29/2003	0.8	3.0
08/30/2003	0.7	2.9
08/31/2003	0.7	2.9
09/01/2003	0.7	2.9
09/02/2003	0.7	2.9
09/03/2003	0.8	2.9
09/04/2003	0.8	3.1
09/05/2003	Offline	Offline
09/06/2003	0.7	2.9
09/07/2003	0.8	3.3
09/08/2003	0.8	2.9
09/09/2003	0.9	2.9
09/10/2003	0.8	2.9
09/11/2003	0.9	3.0
09/12/2003	1.1	2.9
09/13/2003	1.0	2.9
09/14/2003	0.9	3.1
09/15/2003	1.0	2.9
09/16/2003	0.9	3.0
09/17/2003	1.0	2.9
09/18/2003	1.0	2.9
09/19/2003	1.0	2.9
09/20/2003	1.0	2.9
09/21/2003	1.0	3.0
09/22/2003	1.0	2.9
09/23/2003	1.0	3.0
09/24/2003	1.1	2.9
09/25/2003	1.1	2.9
09/26/2003	1.1	2.9
09/27/2003	1.7	3.0
09/28/2003	1.3	3.3
09/29/2003	1.1	2.9
09/30/2003	1.1	2.9

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25

**BAYSIDE POWER STATION - CT 1B
EXCLUDED DATA - QUARTER 3, 2003**

Date	Hours Data Excluded	NOx Value of Excluded Data	CO Value of Excluded Data	Reason for Exclusion
07/01/2003	2300	*	39.1	Shutdown
	2400	*	2358.8	Shutdown
07/02/2003	0600	24.4	237.9	Start-up
07/03/2003	2300	24.8	1211.7	Shutdown
07/04/2003	0900	31	166	Start-up
07/06/2003	2200	7.2	68.8	Shutdown
07/07/2003	0900	38.8	391.6	Start-up
	2200	16.8	216.5	Shutdown
07/08/2003	0700	21.5	234	Start-up
07/10/2003	0100	36.9	1211.5	Shutdown
	0700	24.3	175.7	Start-up
07/13/2003	0100	9.8	115.1	Shutdown
	1000	25.6	151.9	Start-up
07/14/2003	0200	*	263.8	Shutdown
	0600	12.2	74.4	Start-up
07/16/2003	2200	*	44.7	Shutdown
	2300	10.1	2337.6	Shutdown
07/17/2003	0800	20	636.8	Start-up/Shutdown
	1100	33.4	410.2	Start-up
	2200	6.7	83	Shutdown
07/18/2003	1200	31.3	332.2	Start-up
	1300	27.6	100.4	Start-up
	1800	6.6	155.1	Shutdown
07/20/2003	1900	29.1	520.7	Start-up/ Shutdown
07/21/2003	0800	51.5	261	Start-up
	0900	44.5	632.1	Start-up
	1000	18.2	109.1	Start-up
08/02/2003	2200	17.1	503.5	Shutdown
08/04/2003	0700	43.5	379.2	Start-up
08/16/2003	2200	6.9	170.1	Shutdown
08/17/2003	0900	39.5	470.9	Start-up
	1000	10	*	Start-up
	2300	*	70	Shutdown
08/18/2003	0800	36	297.4	Start-up
	2200	21.9	414.3	Shutdown
08/19/2003	0700	45.5	341.2	Start-up
08/20/2003	2300	*	34.8	Shutdown
	2400	*	2236.8	Shutdown
08/21/2003	0900	37.1	544.4	Start-up
	1000	12.4	36.4	Start-up
	1700	7.3	91.9	Shutdown
08/23/2003	1100	42.6	372.4	Start-up
	1200	28	115.7	Start-up
	2400	14.6	403.9	Shutdown
08/24/2003	0900	19.8	467.2	Start-up
	1000	19	74.3	Start-up
	2300	19.4	723.5	Shutdown
08/25/2003	0600	40.6	452.8	Start-up

	0700	13.8	29.5	Start-up
	2200	9.4	164.8	Shutdown
08/26/2003	0900	22.8	150.7	Start-up
	2400	10.7	151.6	Shutdown
08/27/2003	0900	12.8	490	Start-up
	1000	20.1	126.6	Start-up
09/04/2003	2100	*	224.2	Shutdown
09/06/2003	0900	32.5	464	Start-up
	1000	24.2	163.4	Start-up
09/07/2003	0200	*	71.2	Shutdown
	0900	18.6	140	Start-up
	2400	14.5	413.7	Shutdown
09/08/2003	0700	14.2	119.7	Start-up
09/09/2003	0100	6.5	73.4	Shutdown
	0700	15.6	239.4	Start-up
09/10/2003	2300	10.5	330.6	Shutdown
09/11/2003	0700	26.5	140.2	Start-up
09/12/2003	0100	41.9	1099.6	Shutdown
	0700	46.1	301.6	Start-up
	0800	50.4	312.1	Start-up
	0900	*	10.4	Start-up
09/13/2003	2300	*	67.9	Shutdown
09/14/2003	0700	*	617.8	Start-up
	0800	18.5	96.6	Start-up
	2400	24.7	427.1	Shutdown
09/15/2003	0400	8.6	454.8	Start-up
	0500	60	86.7	Start-up
	2400	14.4	657	Shutdown
09/16/2003	0600	25.6	173.3	Start-up
	2400	34.6	949.1	Shutdown
09/17/2003	0600	34	462.3	Start-up
	0700	13.7	57.1	Start-up
09/18/2003	2400	6.8	68.1	Shutdown
09/19/2003	0600	11.1	467.7	Start-up
	0700	14.2	62.1	Start-up
09/20/2003	2200	20	349.5	Shutdown
09/21/2003	0800	*	341.5	Start-up
	0900	20.5	101.6	Start-up
	2300	*	48	Shutdown
	2400	*	2310.3	Shutdown
09/22/2003	0700	19.8	191.5	Start-up
	2400	36.4	606	Shutdown
09/23/2003	0500	40.4	335.1	Start-up
	2300	25	426.3	Shutdown
09/24/2003	0600	36.3	246.6	Start-up
09/25/2003	2300	24.3	419.3	Shutdown
09/26/2003	0600	33.4	551.2	Start-up
	0700	20.6	48.5	Start-up
	2300	40	612.6	Shutdown
09/27/2003	0800	35.8	235.3	Start-up
	2400	35.1	1392.3	Shutdown
09/28/2003	0700	41.5	343.4	Start-up

	2300	18.5	445.3	Shutdown
09/29/2003	0600	24.9	192.8	Start-up
	2300	19.3	581.8	Shutdown
09/30/2003	0600	21.3	534.5	Start-up
	0700	14.3	64.1	Start-up
	2200	8.5	114.6	Shutdown

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25

* Data not excluded.

NOx: 40 CFR 75, Appendix B
 CO: 40 CFR 60, Appendix F
 Date RATA data

RATA data required pursuant to these CFRs

MONITORING DATA CHECKING SOFTWARE 4.1 BETA
 TEST SUMMARY REPORT

05/28/2003

PAGE 1

ORIS Code: 7873 State: FL
 Facility Name: BAYSIDE County: HILLSBOROUGH

Unit/ Stack	Sys Comp Test ID Comp/Sys Parm Type Type	Reported Hour/ Test Load End Date Time #	Recalculated Test Test Lvls Reason Result Result

MONITORING DATA CHECKING SOFTWARE 4.1 BETA
 RATA REPORT (RT 610/611) PAGE 2

ORIS Code: 7873 Facility: BAYSIDE State: FL
 Unit/Stack ID: CT1B System ID: 213 Parameter: NOX
 Test End Date/Time: 04/17/2003 1209 Test No.: 1 # of Operating Levels: 1 Units of Measure: LB/MMBTU
 Reason for Test: C
 Performance Spec: <= 10.0% Next RATA: Four Op Qtrs
 Recalc. Results: Pass-APS % RA: 9.09 Mean Diff: 0.001 BAF: 1.100
 Reported Results: Pass-APS % RA: 9.09 Mean Diff: 0.001 BAF: 1.100

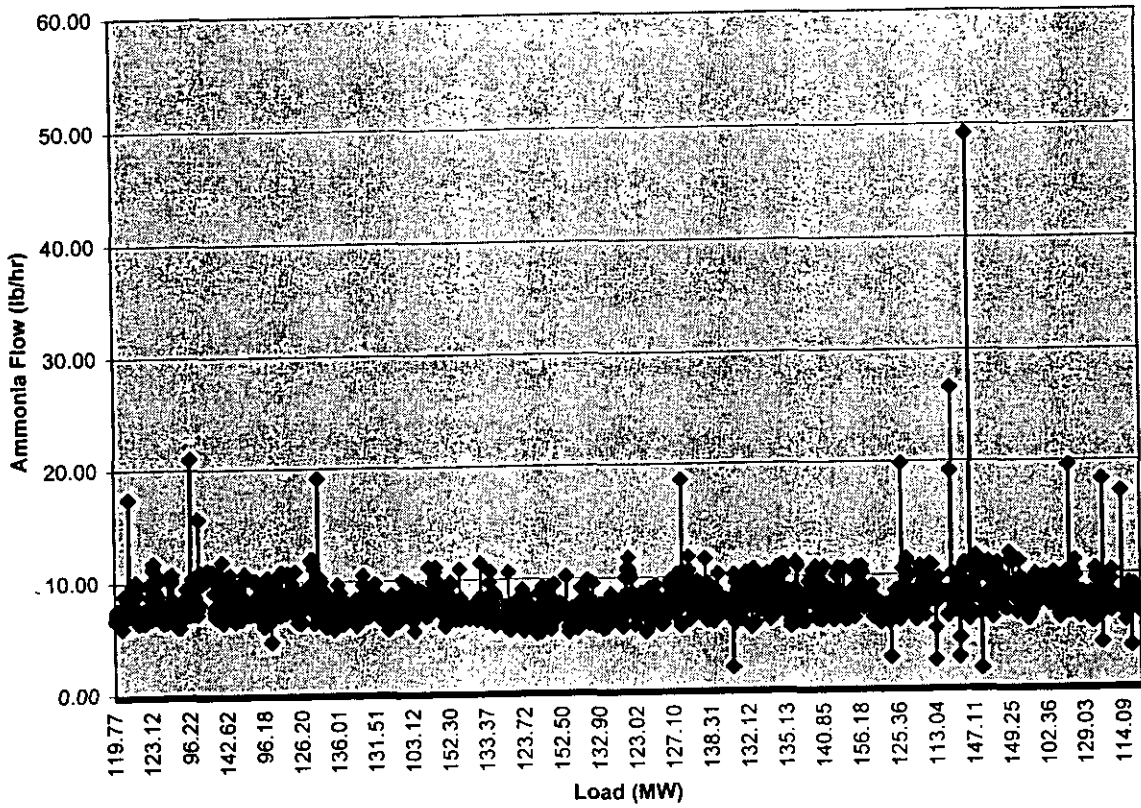
Operating Level: H

Run	Start Date	Start Time	End Run	End Date	Reference Time	Status	Monitoring Method	Gross Load Value	or Velocity
1	04/17/2003	0702	04/17/2003	0723	0723	1	0.011	0.010	164
2	04/17/2003	0736	04/17/2003	0757	0757	1	0.011	0.010	163
3	04/17/2003	0809	04/17/2003	0830	0830	1	0.011	0.010	162
4	04/17/2003	0850	04/17/2003	0911	0911	1	0.011	0.010	160
5	04/17/2003	0923	04/17/2003	0944	0944	1	0.011	0.010	160
6	04/17/2003	1000	04/17/2003	1021	1021	1	0.011	0.010	159
7	04/17/2003	1035	04/17/2003	1056	1056	1	0.011	0.010	158
8	04/17/2003	1116	04/17/2003	1137	1137	1	0.011	0.010	157
9	04/17/2003	1148	04/17/2003	1209	1209	1	0.011	0.010	157

Summary Statistics

	Reported	Recalculated
Mean of Monitoring System	0.010	0.010
Mean of Reference Method Values	0.011	0.011
Mean of Difference	0.001	0.001
Standard Deviation of Difference	0.000	0.000
Confidence Coefficient	0.000	0.000
T-Value	2.306	2.306
Relative Accuracy:	9.09	9.09
Bias Adjustment Factor	1.100	1.100
APS Flag	1	1
Indicator of Normal Op. Level	N	N
Gross Unit Load or Velocity	160	160
Reference Method Used	7e,3a	

Unit 1B Load vs Ammonia Flow



Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 24

**SUMMARY REPORT – NO_x EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE
NSPS SUBPART GG**

Pollutant: NO_x - Combustion Turbine

Emission Limitation: 3.5 ppmvd @ 15% O₂ on a 24-hour block average

Reporting period dates: From 07/01/03 to 07/31/03

Company: Tampa Electric Company
Address: P.O. Box 111
Tampa, FL 33601-0111

Monitor Manufacturer
and Model No.:

Thermal Environmental 42CLS

Process Unit
Description : 169 MW Combined Cycle
Combustion Turbine
(CT 1C)

Date of Latest CMS
Certification or Audit

October 2003

Total source operating
time in reporting period¹:

3428.25

Emission Data Summary ¹	CMS Performance Summary ²
1. Duration of excess emissions in reporting period due to:	1. CMS downtime in reporting period due to:
a. Startup/Shutdown <u>230</u>	a. Monitor equipment malfunctions <u>0</u>
b. Control equipment problems <u>0</u>	b. Non-Monitor equipment malfunctions <u>0</u>
c. Process problems <u>5</u>	c. Quality assurance calibration <u>0</u>
d. Other known causes <u>0</u>	d. Other known causes <u>0</u>
e. Unknown causes <u>0</u>	e. Unknown causes <u>0</u>
2. Total duration of excess emission <u>235</u>	2. Total CMS Downtime <u>0</u>
3. <u>Total duration of excess emissions x (100)</u> Total source operating time <u>7 %</u>	3. <u>Total CMS Downtime x (100)</u> Total source operating time <u>0%</u>

Note: On a separate page, describe any changes to CMS, process or controls during last 6 months. For each quarter, summarize the ammonia injection rates over various loads and the data excluded due to startups, shutdowns, and malfunctions.

This form is used for reporting excess emission according to New Source Performance Standard (NSPS) Subpart GG only. (CO is not a regulated by Subpart GG and is reported under the semi-annual excess emission report required by Section III, permit condition 25.)

- For gases record all times in hours.
- For the reporting period: if the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in 60.7(c) shall be submitted.

TEC Note: The summary report form and the excess emission report required will also be submitted in the semi-annual report.

BAYSIDE POWER STATION - CT 1C
24 - HOUR BLOCK AVERAGE - QUARTER 3, 2003

Date	24-hour block CO	24-hour block NOx
07/01/2003	0.7	3.0
07/02/2003	0.8	3.1
07/03/2003	0.8	3.3
07/04/2003	1.5	3.1
07/05/2003	0.7	3.0
07/06/2003	0.7	3.0
07/07/2003	0.7	3.0
07/08/2003	0.7	3.0
07/09/2003	0.7	3.0
07/10/2003	0.7	3.0
07/11/2003	0.7	3.0
07/12/2003	0.8	3.0
07/13/2003	0.7	3.0
07/14/2003	0.7	3.0
07/15/2003	0.9	3.0
07/16/2003	0.8	3.0
07/17/2003	0.8	3.0
07/18/2003	Offline	Offline
07/19/2003	Offline	Offline
07/20/2003	0.0	0.0
07/21/2003	0.9	3.1
07/22/2003	0.8	3.0
07/23/2003	0.9	3.0
07/24/2003	0.8	3.0
07/25/2003	0.9	3.0
07/26/2003	0.8	3.0
07/27/2003	0.8	3.0
07/28/2003	0.8	3.0
07/29/2003	0.9	3.0
07/30/2003	0.8	3.0
07/31/2003	0.9	3.0
08/01/2003	0.9	3.0
08/02/2003	0.9	3.0
08/03/2003	0.9	3.0
08/04/2003	0.9	3.0
08/05/2003	0.9	3.0
08/06/2003	0.9	3.0
08/07/2003	0.9	3.0
08/08/2003	0.9	2.9
08/09/2003	0.9	2.9
08/10/2003	0.9	3.0
08/11/2003	0.9	3.0
08/12/2003	0.9	3.1
08/13/2003	0.9	3.0
08/14/2003	0.9	3.0
08/15/2003	1.0	2.9
08/16/2003	0.9	2.9
08/17/2003	1.1	2.9
08/18/2003	0.8	2.9

08/19/2003	0.7	3.2
08/20/2003	0.5	2.9
08/21/2003	0.6	2.9
08/22/2003	0.5	2.9
08/23/2003	0.6	2.7
08/24/2003	0.6	3.0
08/25/2003	0.6	2.9
08/26/2003	2.1	3.5
08/27/2003	0.6	2.9
08/28/2003	0.6	2.9
08/29/2003	0.7	2.9
08/30/2003	0.6	2.9
08/31/2003	0.6	2.9
09/01/2003	0.6	2.9
09/02/2003	0.7	3.1
09/03/2003	1.2	2.7
09/04/2003	0.8	2.9
09/05/2003	0.7	2.9
09/06/2003	0.6	2.9
09/07/2003	0.7	2.9
09/08/2003	0.7	3.0
09/09/2003	0.8	2.9
09/10/2003	0.8	2.9
09/11/2003	0.8	3.0
09/12/2003	0.8	2.9
09/13/2003	0.8	2.9
09/14/2003	0.8	2.9
09/15/2003	0.8	2.9
09/16/2003	0.8	2.9
09/17/2003	0.8	2.9
09/18/2003	0.9	2.9
09/19/2003	0.8	2.9
09/20/2003	0.8	2.9
09/21/2003	0.8	2.9
09/22/2003	0.8	2.9
09/23/2003	0.9	3.1
09/24/2003	0.8	2.9
09/25/2003	0.8	2.9
09/26/2003	0.8	2.9
09/27/2003	0.8	2.9
09/28/2003	0.9	2.9
09/29/2003	0.8	2.9
09/30/2003	0.9	2.9

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25

**BAYSIDE POWER STATION - CT 1C
EXCLUDED DATA - QUARTER 3, 2003**

Date	Hours Data Excluded	NOx Value of Excluded Data	CO Value of Excluded Data	Reason for Exclusion
07/01/2003	0800	14.9	139.8	Start-up
07/03/2003	0100	31.2	1066.9	Shutdown
	0800	35.2	362.3	Start-up
07/04/2003	2300	35	1582.7	Shutdown
07/05/2003	1000	25.7	115.8	Start-up
	2100	6.7	59.5	Shutdown
07/06/2003	1000	38.8	390.7	Start-up
	1100	18.5	49.5	Start-up
07/07/2003	2300	47.8	672.8	Shutdown
07/08/2003	0800	37.1	255.9	Start-up
	2200	16.4	346.1	Shutdown
07/09/2003	1600	32.8	363.1	Start-up
	1700	36.6	195.5	Start-up
07/14/2003	2300	36.4	525.6	Shutdown
07/15/2003	0800	17	81.2	Start-up
07/17/2003	2400	7.3	264.2	Shutdown
07/20/2003	1100	29.7	427.4	Start-up
	1200	45.8	511.4	Shutdown
	2000	34	297	Cold Steam Turbine Start-up
	2100	56.8	185.8	Cold Steam Turbine Start-up
	2200	58.1	182.9	Cold Steam Turbine Start-up
	2300	57.1	190.8	Cold Steam Turbine Start-up
	2400	52.8	182.7	Cold Steam Turbine Start-up
07/21/2003	2300	15.3	421.3	Shutdown
07/22/2003	0700	23.2	160.5	Start-up
07/23/2003	1400	13	108.5	Cold Steam Turbine Start-up
	1500	32.3	308.2	Cold Steam Turbine Start-up
	1600	35.4	349.5	Cold Steam Turbine Start-up
	1700	9.9	12	Cold Steam Turbine Start-up
07/25/2003	2200	8.5	96	Shutdown
07/26/2003	0900	35.8	448.7	Start-up
	1000	20.3	44.6	Start-up
07/27/2003	2400	9.1	111.8	Shutdown
07/28/2003	0800	22.4	149.8	Start-up
07/29/2003	2400	15.7	722.9	Shutdown
07/30/2003	0900	40.4	299.5	Start-up
08/01/2003	2300	8.9	105.8	Shutdown
08/02/2003	0800	25.6	435.9	Start-up
	0900	15	53.2	Start-up
	2300	16.9	572.1	Shutdown
08/03/2003	1100	22.6	488	Start-up
	1200	22.1	88.3	Start-up
08/07/2003	2300	6.7	69.3	Shutdown
08/08/2003	0800	34.1	215.3	Start-up
08/09/2003	0100	29	501.4	Shutdown
	0900	21.5	104.2	Start-up
	2300	8.7	303.8	Shutdown
08/10/2003	1000	28	252.8	Start-up

08/11/2003	0100	6.2	61.1	Shutdown
	0700	5.6	151.8	Start-up
	2400	6.5	66.3	Shutdown
08/12/2003	0600	*	549.1	Start-up
	0700	13	51.2	Start-up
	2400	12.1	144.7	Shutdown
08/13/2003	0600	30.5	379.3	Start-up
	0700	9.7	26.1	Start-up
08/14/2003	2100	8	252.6	Shutdown
08/15/2003	0800	28.3	197.8	Start-up
	2400	30.7	506.9	Shutdown
08/16/2003	0700	34	503.9	Start-up
	0800	8.5	17.3	Start-up
08/18/2003	2100	21.7	342.2	Shutdown
08/19/2003	0600	39.7	357.8	Start-up
	2300	27.7	430.1	Shutdown
08/20/2003	0900	36.1	503.2	Start-up
	1000	13.2	19.8	Start-up
08/21/2003	2300	14.8	694.4	Shutdown
08/22/2003	1000	25.6	174.3	Start-up
08/23/2003	0500	14.1	140.2	Malfunction
	0600	27.9	250.9	Malfunction
	0700	28	268.3	Malfunction
	0800	28.7	265.9	Malfunction
	0900	29.1	195.4	Malfunction
08/24/2003	2400	7.9	80.1	Shutdown
08/25/2003	0900	24.3	162.5	Start-up
	2300	8	89.4	Shutdown
08/26/2003	1000	*	391.3	Start-up
	1100	11.8	2.7	Start-up
08/27/2003	2400	17.2	317.7	Shutdown
08/28/2003	0600	18	129.1	Start-up
	2200	6.3	65.8	Shutdown
08/29/2003	0800	36.7	181.7	Start-up
	2400	8.9	99.5	Shutdown
08/30/2003	0900	27.2	498.1	Start-up
	1000	18.1	52.4	Start-up
08/31/2003	2400	18.9	255.1	Shutdown
09/01/2003	0900	38.6	427	Start-up
	1000	10.9	16.6	Start-up
	2400	10.5	126.6	Shutdown
09/02/2003	0800	*	141.2	Start-up
	0900	15.5	78.6	Start-up
	2200	12.6	165.2	Shutdown
09/03/2003	0700	23.6	596	Start-up
	0800	39.7	1372.1	Shutdown
	1100	18.9	91	Start-up
	2200	18.3	300	Shutdown
09/04/2003	0700	20	501	Start-up
	0800	15	56.2	Start-up
09/06/2003	0100	21.9	363.6	Shutdown
	0700	19.3	255.8	Start-up

09/08/2003	2400	*	56.2	Shutdown
09/09/2003	0100	*	2510.8	Shutdown
	1000	23.1	136.6	Start-up
09/10/2003	2400	9.1	187.3	Shutdown
09/11/2003	0500	*	530.9	Start-up
	0600	*	93.2	Start-up
09/12/2003	2400	15.8	576.5	Shutdown
09/13/2003	0900	32.2	424.5	Start-up
	1000	22.1	96.9	Start-up
09/15/2003	0100	20.3	311.5	Shutdown
	0600	25.3	138.2	Start-up
09/16/2003	0200	36.2	616	Shutdown
	0700	20.3	133.7	Start-up
09/17/2003	0200	25.7	427	Shutdown
	0600	26.1	208.5	Start-up
09/19/2003	2100	22.2	378.2	Shutdown
09/20/2003	0800	16.2	631.5	Start-up
	0900	23.7	122.8	Start-up
09/23/2003	0100	13.5	559.8	Shutdown
	0600	30.2	436.2	Start-up
09/24/2003	0100	24.8	420.5	Shutdown
	0700	22.8	124	Start-up
09/26/2003	0100	16.1	859.9	Shutdown
	0800	*	17.2	Start-up
	0900	23.6	104.7	Start-up
09/28/2003	2400	6.4	40.8	Shutdown
09/29/2003	0100	10.4	2533.1	Shutdown
	0700	38.7	409.6	Start-up
	0800	12.4	30.8	Start-up

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25

NOx: 40 CFR 75, Appendix B
 CO: 40 CFR 60, Appendix F
 Date RATA data

RATA data required pursuant to these CFRs

MONITORING DATA CHECKING SOFTWARE 4.1 BETA
 TEST SUMMARY REPORT PAGE 1

05/28/2003

ORIS Code: 7873 State: FL
 Facility Name: BAYSIDE County: HILLSBOROUGH

Unit/ Stack	Sys Comp Test	Reported	Recalculated	Hour/ Test Load	Test	Test	Result	Result
ID	Comp/Sys Parm Type Type	End Date	Time #	Lvl	Reason	Result	Result	Result
CT1C	/313 NOX RATA (RT 610-616)	04/18/2003	1110	1	1	C	Pass-APS	Pass-APS
MONITORING DATA CHECKING SOFTWARE 4.1 BETA							05/28/2003	
RATA REPORT (RT 610/611)							PAGE 2	

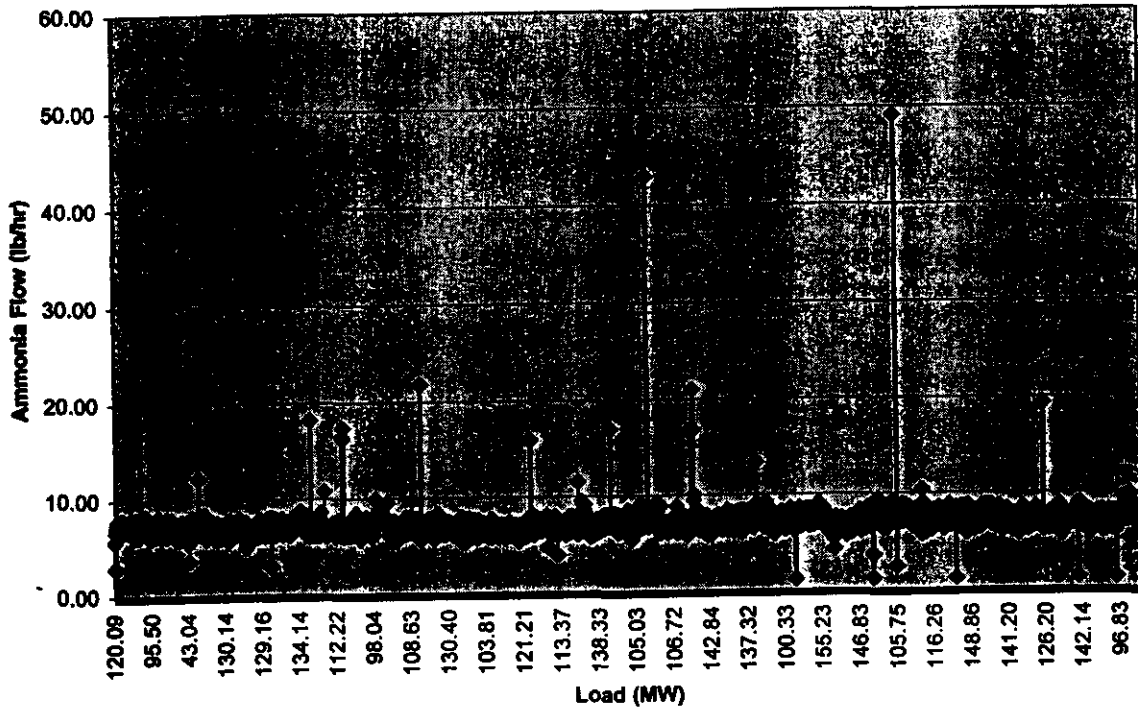
ORIS Code: 7873 Facility: BAYSIDE State: FL
 Unit/Stack ID: CT1C System ID: 313 Parameter: NOX
 Test End Date/Time: 04/18/2003 1110 Test No.: 1 # of Operating Levels: 1 Units of Measure: LB/MMBTU
 Reason for Test: C
 Performance Spec: <= 10.0% Next RATA: Four Op Qtrs
 Recalc. Results: Pass-APS % RA:16.97 Mean Diff: 0.002 BAF: 1.111
 Reported Results: Pass-APS % RA:16.97 Mean Diff: 0.002 BAF: 1.111

Operating Level: H

Run	Start Date	Time	End Date	Reference Time	Status	Monitoring Method	Gross Load Value	or Velocity
1	04/18/2003	0601	04/18/2003	0622	1	0.011	0.010	168
2	04/18/2003	0652	04/18/2003	0713	1	0.012	0.010	168
3	04/18/2003	0725	04/18/2003	0746	1	0.012	0.010	167
4	04/18/2003	0757	04/18/2003	0818	1	0.012	0.010	165
5	04/18/2003	0830	04/18/2003	0851	1	0.012	0.010	163
6	04/18/2003	0904	04/18/2003	0925	1	0.012	0.010	162
7	04/18/2003	0941	04/18/2003	1002	1	0.011	0.010	161
8	04/18/2003	1014	04/18/2003	1035	1	0.011	0.010	160
9	04/18/2003	1049	04/18/2003	1110	1	0.011	0.010	159

Summary Statistics	Reported	Recalculated
Mean of Monitoring System	0.010	0.010
Mean of Reference Method Values	0.012	0.012
Mean of Difference	0.002	0.002
Standard Deviation of Difference	0.001	0.001
Confidence Coefficient	0.000	0.000
T-Value	2.306	2.306
Relative Accuracy:	16.97	16.97
Bias Adjustment Factor	1.111	1.111
APS Flag	1	1
Indicator of Normal Op. Level	N	N
Gross Unit Load or Velocity	164	164
Reference Method Used	7e,3a	

Unit 1C Load vs Ammonia Flow



Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 24



ATTACHMENT 3

BAYSIDE POWER STATION - CT 1A
24 - HOUR BLOCK AVERAGE - QUARTER 4, 2003

Date	24-hour block CO	24-hour block NOx
10/01/2003	0.5	2.9
10/02/2003	0.3	2.9
10/03/2003	0.2	3.0
10/04/2003	Offline	Offline
10/05/2003	Offline	Offline
10/06/2003	Offline	Offline
10/07/2003	1.5	2.9
10/08/2003	1.3	2.9
10/09/2003	0.4	3.1
10/10/2003	0.2	2.9
10/11/2003	0.2	2.9
10/12/2003	0.3	2.9
10/13/2003	0.3	2.9
10/14/2003	0.3	2.9
10/15/2003	1.3	2.9
10/16/2003	1.3	2.9
10/17/2003	1.4	2.9
10/18/2003	2.2	2.9
10/19/2003	0.7	2.9
10/20/2003	0.7	2.9
10/21/2003	0.8	2.8
10/22/2003	0.8	2.9
10/23/2003	0.8	2.9
10/24/2003	0.9	2.9
10/25/2003	0.9	2.9
10/26/2003	0.9	2.9
10/27/2003	1.0	2.9
10/28/2003	0.9	2.9
10/29/2003	1.0	2.9
10/30/2003	1.0	2.9
10/31/2003	1.0	2.9
11/01/2003	1.0	2.9
11/02/2003	1.4	3.0
11/03/2003	Offline	Offline
11/04/2003	0.0	0.0
11/05/2003	0.0	0.0
11/06/2003	1.1	2.9
11/07/2003	0.9	2.9
11/08/2003	0.9	2.9
11/09/2003	0.9	2.9
11/10/2003	0.9	2.9
11/11/2003	0.4	2.9
11/12/2003	0.2	3.0
11/13/2003	0.2	1.9
11/14/2003	0.3	2.5
11/15/2003	0.3	2.9
11/16/2003	0.4	2.9
11/17/2003	0.4	3.2
11/18/2003	0.4	2.9

11/19/2003	0.4	2.8
11/20/2003	0.5	3.2
11/21/2003	0.5	2.9
11/22/2003	1.1	3.1
11/23/2003	0.5	2.9
11/24/2003	0.7	3.4
11/25/2003	0.6	3.0
11/26/2003	0.7	3.0
11/27/2003	0.6	2.9
11/28/2003	0.5	2.9
11/29/2003	0.7	2.9
11/30/2003	0.6	2.9
12/01/2003	0.7	2.9
12/02/2003	0.7	2.9
12/03/2003	0.7	3.0
12/04/2003	0.6	2.9
12/05/2003	0.7	3.0
12/06/2003	0.8	2.9
12/07/2003	0.9	2.9
12/08/2003	0.9	2.9
12/09/2003	0.9	2.9
12/10/2003	0.8	2.9
12/11/2003	0.8	2.9
12/12/2003	0.9	2.9
12/13/2003	0.9	2.9
12/14/2003	0.8	2.9
12/15/2003	Offline	Offline
12/16/2003	Offline	Offline
12/17/2003	Offline	Offline
12/18/2003	Offline	Offline
12/19/2003	Offline	Offline
12/20/2003	Offline	Offline
12/21/2003	0.0	0.0
12/22/2003	Offline	Offline
12/23/2003	1.1	2.9
12/24/2003	1.2	2.9
12/25/2003	1.1	2.9
12/26/2003	1.2	2.9
12/27/2003	1.3	2.9
12/28/2003	0.0	0.0
12/29/2003	1.2	3.0
12/30/2003	1.2	3.1
12/31/2003	1.3	2.9

Per Air Permit No. 0570040-015-AC, Section III, Specific

BAYSIDE POWER STATION - CT 1A
EXCLUDED DATA - QUARTER 4, 2003

Date	Hours Data Excluded	NOx Value of Excluded Data	CO Value of Excluded Data	Reason for Exclusion
10/02/2003	0000	17.3	348.2	Shutdown
	0700	16.9	230.6	Start-up
	0800	16.9	26.1	Start-up
	2200	9.4	104.6	Shutdown
10/03/2003	1000	42.1	111.2	Start-up
	2100	38.8	942.0	Shutdown
10/07/2003	0600	45.8	*	Start-up
	0700	54.3	*	Start-up
	0900	15.5	19.4	Start-up
	2400	27.3	364.5	Shutdown
10/08/2003	0600	17.2	473.2	Start-up
	0700	18.5	92.4	Start-up
	2200	9.7	177.2	Shutdown
10/09/2003	0600	*	35.1	Start-up
	0700	22.3	113.5	Start-up
10/13/2003	0100	29.6	433.4	Shutdown
	0600	25.0	153.9	Start-up
10/14/2003	0100	29.6	433.4	Shutdown
	0600	25.0	153.9	Start-up
10/15/2003	0200	46.2	243.1	Malfunction
10/16/2003	2200	9.2	99.2	Shutdown
10/17/2003	0500	48.4	153.4	Start-up
	2300	5.9	20.1	Shutdown
10/18/2003	0700	15.2	428.4	Start-up
	0800	24.1	80.4	Start-up
10/19/2003	0000	9.6	103.6	Shutdown
	0600	33.9	156.7	Start-up
10/20/2003	2300	11.0	132.8	Shutdown
10/21/2003	0400	5.7	474.3	Start-up
	0500	30.4	179.2	Start-up
10/26/2003	1000	35.4	281.6	Start-up
10/29/2003	2300	8.7	148.6	Shutdown
10/30/2003	1100	28.4	145.5	Start-up
	2100	15.0	505.2	Shutdown
10/31/2003	1300	44.8	316.2	Start-up
	1400	26.3	61.7	Start-up
	1500	7.1	*	tuning
	1600	7.0	*	tuning
	1700	5.2	*	tuning
	2000	7.0	269.3	Shutdown
11/01/2003	0700	11.6	577.9	Start-up
	0900	36.5	216.4	Start-up
11/02/2003	0100	7.2	79.2	Shutdown
	0900	43.5	319.9	Start-up
	1000	19.9	*	Start-up
11/04/2003	1900	32.6	401.1	Start-up/ Shutdown
11/05/2003	1400	41.6	260.4	tuning
	1500	48.9	189.1	tuning
	1600	50.3	185.2	tuning
	1700	50.1	213.7	tuning
	1800	49.9	215.6	tuning
	1900	49.8	218.8	tuning
	2000	49.3	219.4	tuning
	2100	49	220.3	tuning
	2200	49.6	218.2	tuning
11/06/2003	0100	50.3	215.7	tuning
	0200	49.9	218.9	tuning
	0300	51.5	212.7	tuning
	0400	51.2	217.6	tuning
	0500	48.2	280.4	tuning
	0600	26.9	100.1	tuning

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62		0800	22.4	296.6	tuning
		1500	22.4	136.1	Start-up
		2200	13.2	196.9	Shutdown
	11/07/2003	1000	13.5	586.5	Start-up
		1100	24.4	76.9	Start-up
	11/09/2003	1700	21.7	312	Shutdown
	11/10/2003	0900	36.6	254.8	Start-up
		2300	10.8	176.9	Shutdown
70	11/11/2003	0600	25.2	136.8	Start-up
	11/12/2003	0000	9.9	213.3	Shutdown
		1000	38.1	194.5	Start-up
		2300	15.2	661.7	Shutdown
	11/13/2003	0800	33.7	372.1	Start-up
		0900	20.8	90.5	Start-up
	11/17/2003	0100	9.9	98.8	Shutdown
		0600	48.3	348.7	Start-up
	11/18/2003	2300	13.4	190.4	Shutdown
	11/19/2003	0700	23.5	129.3	Start-up
80		2300	7.1	65.4	Shutdown
	11/20/2003	0500	46.2	314.3	Start-up
	11/21/2003	2200	6.8	64	Shutdown
	11/22/2003	0700	23.6	448.6	Start-up
		0800	33.6	186.9	Start-up
		2300	27	1358.4	Shutdown
	11/23/2003	0800	25.6	118.4	Start-up
	11/24/2003	0000	14.7	194.4	Shutdown
		0700	42.9	396.3	Start-up
	11/25/2003	0000	6.6	66.9	Shutdown
90		0600	12.6	518.5	Start-up
		0700	12.2	120.7	Start-up
	11/26/2003	0100	41.9	1095.3	Shutdown
		0600	40.4	462.7	Start-up
		0700	15.8	53.7	Start-up
	11/27/2003	0000	8.9	90.5	Shutdown
		0800	*	80.2	Start-up
		0900	26.6	158.6	Start-up
	11/28/2003	0800	23.6	463.8	Start-up
		0900	29.3	203.8	Start-up
100	12/02/2003	0100	8.8	156.7	Shutdown
		0600	*	192.1	Start-up
		0700	26.3	109.8	Start-up
	12/04/2003	0000	11.3	130.3	Shutdown
		0600	43.3	245.8	Start-up
	12/05/2003	0200	10	240.6	Shutdown
		0600	27	414.1	Start-up
		0700	17.7	89.6	Start-up
	12/09/2003	0200	12.2	151.8	Shutdown
		0700	41.8	237.4	Start-up
110	12/14/2003	1900	15.8	182.7	Shutdown
	12/21/2003	0200	52.1	295.9	Shutdown
		0300	54.5	376.2	Shutdown
	12/23/2003	0600	19.6	435.7	Start-up
		0700	40	221.9	Start-up
	12/26/2003	2300	8.2	101.7	Shutdown
	12/27/2003	0600	42	470.7	Start-up
		0700	33.1	177.5	Start-up
		1100	5.3	32	Shutdown
120	12/28/2003	0100	8.1	2403.3	Shutdown
	12/29/2003	1000	45.2	426.6	Start-up
	12/30/2003	0100	13.2	663.1	Shutdown
		0600	39.4	377.7	Start-up
		0700	22.8	77.4	Start-up
		2200	*	157.2	Shutdown
	12/31/2003	0600	46	250.1	Start-up
		1100	15.3	160.2	Shutdown
127		1800	31.5	146.3	Start-up

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25

* Data not excluded.



Environmental Services
Air Services Group

**40CFR75 - APPENDIX A
RELATIVE ACCURACY TEST AUDIT**

Customer: Tampa Electric Company
Facility: Bayside Power Station
Source: CT-1A
Test Date: 11/21/03

Run Number	Run Times		Unit Load	Air Services Group - Test Data			Continuous Emissions Monitor		Difference lbs/mmBtu	Run Flag
	Start	Stop		RM - 7E NO _x ppmvd	RM - 3A O ₂ %v, dry	RM - 19 NO _x lbs/mmBtu	RM - 19 NO _x lbs/mmBtu			
1	11:07	11:39	160	3.75	14.18	0.012	0.011	0.001	1	
2	11:51	12:12	159	3.78	14.29	0.012	0.011	0.001	1	
3	12:21	12:42	159	3.78	14.29	0.012	0.011	0.001	1	
4	12:50	13:11	158	3.78	14.31	0.012	0.011	0.001	1	
5	13:19	13:40	158	3.78	14.31	0.012	0.011	0.001	1	
6	13:48	14:09	157	3.88	14.31	0.013	0.011	0.002	1	
7	14:19	14:40	157	3.78	14.32	0.012	0.011	0.001	1	
8	14:50	15:11	157	3.78	14.32	0.012	0.011	0.001	1	
9	15:18	15:39	157	3.78	14.32	0.012	0.011	0.001	1	
		Means:	158			0.012	0.011	0.001		

Standard Deviation of Differences: 0.000
 Number of Valid Runs Included in Data Set: 9
 t-value for Data Set: 2.306
 2.5% Error Confidence Coefficient (CC) for Data Set: 0.000
 Relative Accuracy (RA), Calculated Against Mean Reference Method Value: 11.29
 Relative Accuracy (RA), Calculated As Mean Difference, Alternative Performance Specification (APS): 0.001
 Bias Test: FAILED
 Bias Adjustment Factor (BAF): 1.101
 Alternative Bias Adjustment Factor (BAF): N/A



Environmental Services
Air Services Group

40CFR75 - APPENDIX A
RELATIVE ACCURACY TEST AUDIT

Customer: Tampa Electric Company
Facility: Bayside Power Station
Source: CT-1A
Test Date: 11/21/03

Run Number	Run Times Start	Run Times Stop	Unit Load	Air Services Group - Test Data RM - 3A CO ₂ , % volume dry	Continuous Emissions Monitor CO ₂ , % volume dry	Difference CO ₂ , % volume dry	Run Flag
1	11:07	11:39	160	3.95	4.161	-0.211	1
2	11:51	12:12	159	3.96	4.162	-0.202	1
3	12:21	12:42	159	3.98	4.162	-0.182	1
4	12:50	13:11	158	3.97	4.157	-0.187	1
5	13:19	13:40	158	3.98	4.156	-0.176	1
6	13:48	14:09	157	3.95	4.150	-0.200	1
7	14:19	14:40	157	3.95	4.148	-0.198	1
8	14:50	15:11	157	3.95	4.140	-0.190	1
9	15:18	15:39	157	3.95	4.140	-0.190	1
	Means:		158	3.960	4.153	-0.193	

Standard Deviation of Differences: 0.011
 Number of Valid Runs Included in Data Set: 9
 t-value for Data Set: 2.306
 2.5% Error Confidence Coefficient (CC) for Data Set: 0.008
 Relative Accuracy (RA): 5.08



Environmental Services
Air Services Group

40CFR60 - APPENDIX B, PERFORMANCE SPECIFICATION 4
RELATIVE ACCURACY TEST AUDIT

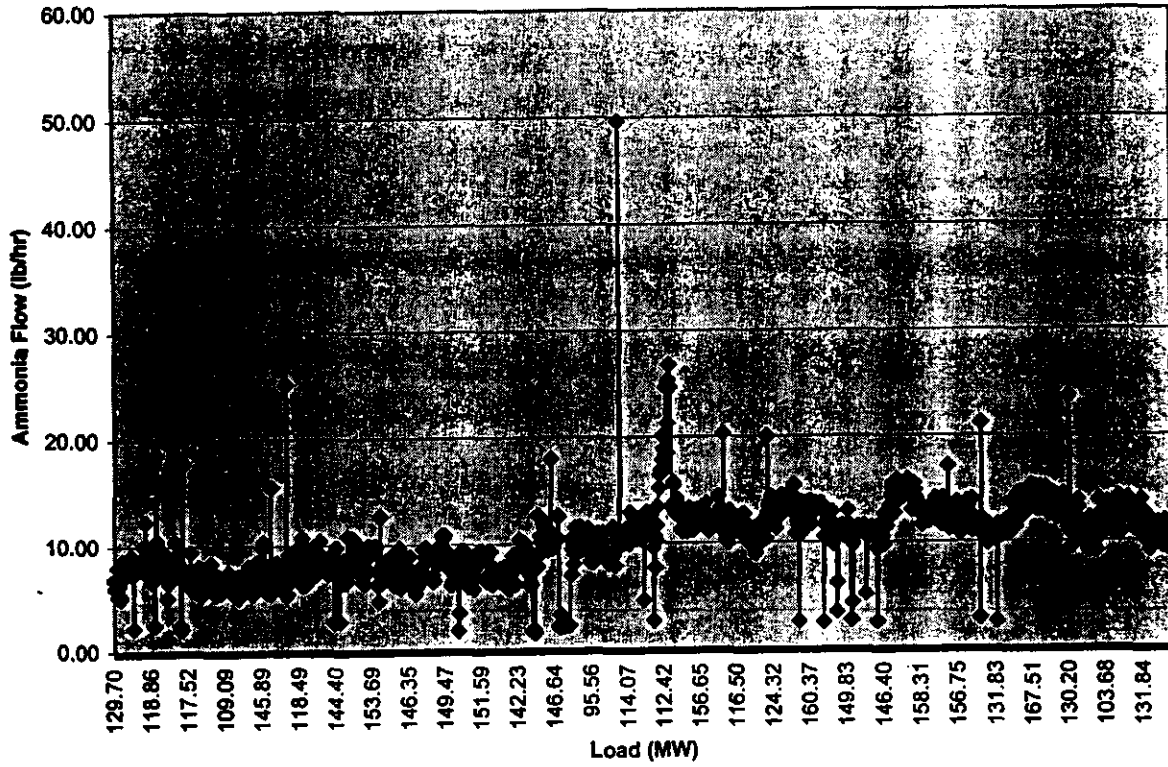
Customer: Tampa Electric Company
Facility: Bayside Power Station
Source: CT-1A
Test Date: 11/21/03

Applicable Standard: 7.8 ppmvd CO @ 15% O₂

Run Number	Run Times		Unit Load	Air Services Group - Test Data			Continuous Emissions Monitor		Difference CO ppmvd @ 15% O ₂	Run Flag
	Start	Stop		RM -10 CO ppmvd	RM - 3A O ₂ %v, dry	CO ppmvd @ 15% O ₂	CO ppmvd	CO ppmvd @ 15% O ₂		
1	11:07	11:39	160	0.64	14.18	0.559	0.60	0.500	0.059	1
2	11:51	12:12	159	0.77	14.29	0.691	0.60	0.500	0.191	1
3	12:21	12:42	159	0.69	14.29	0.614	0.60	0.495	0.119	1
4	12:50	13:11	158	0.70	14.31	0.626	0.60	0.491	0.135	1
5	13:19	13:40	158	0.69	14.31	0.617	0.60	0.486	0.131	1
6	13:48	14:09	157	0.77	14.31	0.693	0.60	0.491	0.202	1
7	14:19	14:40	157	0.76	14.32	0.683	0.60	0.500	0.183	1
8	14:50	15:11	157	0.84	14.32	0.757	0.60	0.495	0.262	1
9	15:18	15:39	157	0.84	14.32	0.757	0.60	0.495	0.262	1
Means:			158			0.666		0.495	0.172	

Standard Deviation of Differences: 0.067
 Number of Valid Runs Included in Data Set: 9
 t-value for Data Set: 2.306
 2.5% Error Confidence Coefficient (CC) for Data Set: 0.052
 Relative Accuracy (RA), Calculated Against Mean Reference Method Value: 33.51 %
 Relative Accuracy (RA), Calculated Against Applicable Standard: 2.86 %

Unit 1A Load vs Ammonia Flow



Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 24

BAYSIDE POWER STATION - CT 1B
24 - HOUR BLOCK AVERAGE - QUARTER 4, 2003

Date	24-hour block CO	24-hour block NOx
10/01/2003	1.6	3.0
10/02/2003	1.2	3.1
10/03/2003	1.9	3.0
10/04/2003	1.2	3.0
10/05/2003	1.2	2.9
10/06/2003	1.3	2.9
10/07/2003	1.3	3.0
10/08/2003	1.2	2.9
10/09/2003	1.2	3.1
10/10/2003	1.2	2.9
10/11/2003	1.2	3.0
10/12/2003	1.2	2.9
10/13/2003	1.2	2.9
10/14/2003	1.2	2.9
10/15/2003	1.2	2.9
10/16/2003	1.2	2.9
10/17/2003	1.3	3.0
10/18/2003	1.3	2.9
10/19/2003	1.2	2.9
10/20/2003	1.3	2.9
10/21/2003	1.3	3.0
10/22/2003	1.2	2.9
10/23/2003	1.3	2.9
10/24/2003	1.3	2.9
10/25/2003	1.7	3.2
10/26/2003	1.3	2.9
10/27/2003	1.3	2.9
10/28/2003	1.2	3.0
10/29/2003	1.3	2.9
10/30/2003	1.3	2.9
10/31/2003	1.3	2.9
11/01/2003	1.3	2.9
11/02/2003	1.3	2.9
11/03/2003	1.4	2.9
11/04/2003	1.6	3.0
11/05/2003	1.4	2.9
11/06/2003	1.4	2.9
11/07/2003	1.5	3.1
11/08/2003	1.6	3.1
11/09/2003	1.4	3.0
11/10/2003	1.1	2.9
11/11/2003	0.7	2.9
11/12/2003	0.7	2.9
11/13/2003	0.7	3.0
11/14/2003	0.7	2.9
11/15/2003	0.9	2.9
11/16/2003	0.8	2.9
11/17/2003	0.8	2.9
11/18/2003	0.8	2.9

11/19/2003	0.8	2.9
11/20/2003	0.8	2.9
11/21/2003	0.9	2.9
11/22/2003	0.8	2.9
11/23/2003	0.9	2.9
11/24/2003	0.8	2.9
11/25/2003	0.9	2.9
11/26/2003	0.9	2.9
11/27/2003	1.0	2.9
11/28/2003	0.9	2.9
11/29/2003	1.0	3.2
11/30/2003	0.9	2.9
12/01/2003	1.0	2.9
12/02/2003	1.0	2.9
12/03/2003	0.9	2.9
12/04/2003	0.9	2.9
12/05/2003	1.0	3.0
12/06/2003	1.1	2.9
12/07/2003	1.1	2.9
12/08/2003	1.1	2.9
12/09/2003	1.2	2.9
12/10/2003	Offline	Offline
12/11/2003	Offline	Offline
12/12/2003	Offline	Offline
12/13/2003	Offline	Offline
12/14/2003	Offline	Offline
12/15/2003	Offline	Offline
12/16/2003	Offline	Offline
12/17/2003	Offline	Offline
12/18/2003	Offline	Offline
12/19/2003	Offline	Offline
12/20/2003	Offline	Offline
12/21/2003	Offline	Offline
12/22/2003	Offline	Offline
12/23/2003	1.2	2.9
12/24/2003	0.0	5.0
12/25/2003	Offline	Offline
12/26/2003	1.2	2.9
12/27/2003	1.2	2.9
12/28/2003	1.5	2.9
12/29/2003	1.6	2.9
12/30/2003	Offline	Offline
12/31/2003	1.3	2.9

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25

**BAYSIDE POWER STATION - CT 1B
EXCLUDED DATA - QUARTER 4, 2003**

Date	Hours Data Excluded	NOx Value of Excluded Data	CO Value of Excluded Data	Reason for Exclusion
10/01/2003	0600	32.6	217.4	Start-up
	2400	26.2	1445.5	Shutdown
10/02/2003	0500	21.6	151.4	Start-up
	2300	*	47.2	Shutdown
	2400	*	2256	Shutdown
10/03/2003	0700	35.1	446.6	Start-up
	0800	13.5	*	Start-up
	2300	40.1	791.3	Shutdown
10/04/2003	0600	*	216.4	Start-up
	0700	34.9	157	Start-up
10/07/2003	0100	*	41.6	Shutdown
	0200	*	2282.3	Shutdown
	0500	43.1	446.6	Start-up
	0600	10.4	*	Start-up
10/08/2003	2300	9.3	165.8	Shutdown
10/09/2003	0600	36	286.8	Start-up
	2300	*	64.8	Shutdown
10/10/2003	0600	*	100.8	Start-up
	0700	17.2	110.4	Start-up
	2200	*	17.1	Shutdown
	2300	35.8	1476.9	Shutdown
10/11/2003	0800	*	14.2	Start-up
	0900	2.4	91.6	Start-up
	2200	8.8	165.8	Shutdown
10/12/2003	0700	40.1	388.1	Start-up
	0800	36.8	10.8	Start-up
	2300	20	879.9	Shutdown
10/13/2003	0600	34.1	440.4	Start-up
	0700	17.1	56.5	Start-up
	2400	9.3	118.6	Shutdown
10/14/2003	0500	16.9	610.7	Start-up
	0600	18.1	65	Start-up
	2200	19.6	352.4	Shutdown
10/15/2003	0500	*	4	Start-up
	0600	20.2	82.2	Start-up
	2300	34.1	430.7	Shutdown
10/16/2003	0500	12.5	426.7	Start-up
	0600	28	99.1	Start-up
	2100	9.1	101.9	Shutdown
10/17/2003	0400	27.3	411.6	Start-up
	0500	13.4	57.1	Start-up
10/18/2003	0100	32.5	1116.9	Shutdown
	0700	45.7	239.9	Start-up
10/19/2003	0100	21.4	350.1	Shutdown
	0800	16.6	493.1	Start-up
	0900	15.9	49.2	Start-up
10/20/2003	0100	12.2	167.8	Shutdown
	0600	27.7	398.8	Start-up

	0700	14.9	51.2	Start-up
10/21/2003	2300	45.3	1032.6	Shutdown
10/22/2003	0600	19.6	607.6	Start-up
	0700	20.5	75.1	Start-up
	2100	6.5	65	Shutdown
10/23/2003	0700	42.3	424.8	Start-up
	0800	20.9	69.9	Start-up
	2300	10.1	155.6	Shutdown
10/24/2003	0600	42.5	287.2	Start-up
	0700	24.3	98.2	Start-up
	2300	16.3	399.9	Shutdown
10/25/2003	0800	34.5	178.2	Start-up
	2400	6.7	227.4	Shutdown
10/26/2003	0900	20.7	112.6	Start-up
	2400	8	140.7	Shutdown
10/27/2003	0600	43.1	211.4	Start-up
	2400	*	32.5	Shutdown
10/28/2003	0100	*	1916.6	Shutdown
	0600	21.2	108.2	Start-up
	2300	18.7	276.7	Shutdown
10/29/2003	1100	39.5	157.1	Start-up
	2400	11.7	147.7	Shutdown
10/30/2003	0700	*	462.8	Start-up
	0800	27.6	73.3	Start-up
	2200	7.3	261.9	Shutdown
10/31/2003	0900	36.9	440.7	Start-up
	1000	15.1	18.3	Start-up
11/01/2003	2100	7.1	180.6	Shutdown
11/03/2003	1200	42.6	311.8	Start-up
	1300	28.7	89.1	Start-up
	2200	6.5	257	Shutdown
11/04/2003	1200	29.2	176	Start-up
	2400	12.5	384.7	Shutdown
11/05/2003	1300	15.3	142.5	Start-up
11/08/2003	0100	7.5	86	Shutdown
	0900	30.3	475.9	Start-up
11/09/2003	0100	8.9	383	Shutdown
	1000	41.6	488.8	Start-up
	1100	15.3	113.2	Start-up
	2000	11.6	132.1	Shutdown
11/10/2003	1000	37.6	201.9	Start-up
	1100	12.1	96.1	Start-up
11/13/2003	2200	29.9	343.3	Shutdown
11/14/2003	0700	50.7	333	Start-up
	0800	22.8	52.7	Start-up
11/15/2003	0100	32.6	412.1	Shutdown
	0800	21.9	103.4	Start-up
11/17/2003	2200	13.2	182.6	Shutdown
11/18/2003	1300	27.8	143.3	Start-up
11/20/2003	2300	16.2	705.7	Shutdown
11/21/2003	0500	26.5	441.6	Start-up
	0600	23.8	62.9	Start-up

	2400	11.1	145.6	Shutdown
11/22/2003	1000	29.7	452.8	Start-up
	1100	27.5	111.2	Start-up
	2400	8.6	99	Shutdown
11/23/2003	0900	23.1	508.5	Start-up
	1000	33.4	168.2	Start-up
11/24/2003	0100	7	253.3	Shutdown
	0600	14.3	451.2	Start-up
	0700	25.2	93.7	Start-up
11/29/2003	0100	12.9	151.4	Shutdown
	0600	84.7	149.2	Start-up
12/01/2003	2400	12.2	142.4	Shutdown
12/02/2003	0500	39.2	224.7	Start-up
12/04/2003	0200	9.4	364.2	Shutdown
	0700	43.1	219.1	Start-up
12/05/2003	2300	*	54.6	Shutdown
	2400	*	2231.1	Shutdown
12/06/2003	0800	41.9	416.1	Start-up
	0900	17.4	57.9	Start-up
12/08/2003	2400	8.7	163	Shutdown
12/09/2003	0600	37.8	174.2	Start-up
	2300	8.8	148.6	Shutdown
12/23/2003	0300	44.9	377.9	Start-up
	0400	35	113.3	Start-up
12/24/2003	100	7.1	167.9	Shutdown
12/26/2003	0500	41	322.1	Shutdown
	0600	76	201.7	Start-up
	1400	46.5	267.8	Start-up
12/29/2003	0100	31.5	718.8	Shutdown
	0600	32	373.9	Start-up
	0700	25.7	71.3	Start-up
	1100	18	364.9	Shutdown
12/31/2003	0900	7.8	651.2	Start-up
	1000	46.3	205.8	Start-up

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25

* Data not excluded.

BAYSIDE POWER STATION - CT 1B
MAINTENANCE/REPAIR OF CEMS - QUARTER 4, 2003

Date	Unusual Maint. Or Repair of CEMS
	No Unusual Maintenance of CEMS

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25

BAYSIDE POWER STATION - CT 1B
MONITOR DOWNTIME - QUARTER 4, 2003

Date	Hours of Missing Data for Monitor Downtime	Reason for Monitor Downtime

Monitor availability:	100%
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Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25

NOx: 40 CFR 75, Appendix B
 CO: 40 CFR 60, Appendix F
 Date RATA data

RATA data required pursuant to these CFRs

MONITORING DATA CHECKING SOFTWARE 4.1 BETA
 TEST SUMMARY REPORT PAGE 1

05/28/2003

ORIS Code: 7873 State: FL
 Facility Name: BAYSIDE County: HILLSBOROUGH

Unit/ Stack	Sys Comp Test ID Comp/Sys Parm Type Type	Reported		Recalculated		Test Result	Test Result
		Hour/ Test End Date	Load Time #	Test Lvl	Reason		
CT1B	/213 NOX RATA (RT 610-616)	04/17/2003 1209	1	1	C	Pass-APS	Pass-APS

MONITORING DATA CHECKING SOFTWARE 4.1 BETA
 RATA REPORT (RT 610/611) PAGE 2

ORIS Code: 7873 Facility: BAYSIDE State: FL
 Unit/Stack ID: CT1B System ID: 213 Parameter: NOX
 Test End Date/Time: 04/17/2003 1209 Test No.: 1 # of Operating Levels: 1 Units of Measure: LB/MMBTU
 Reason for Test: C
 Performance Spec: <= 10.0% Next RATA: Four Op Qtrs
 Recalc. Results: Pass-APS % RA: 9.09 Mean Diff: 0.001 BAF: 1.100
 Reported Results: Pass-APS % RA: 9.09 Mean Diff: 0.001 BAF: 1.100

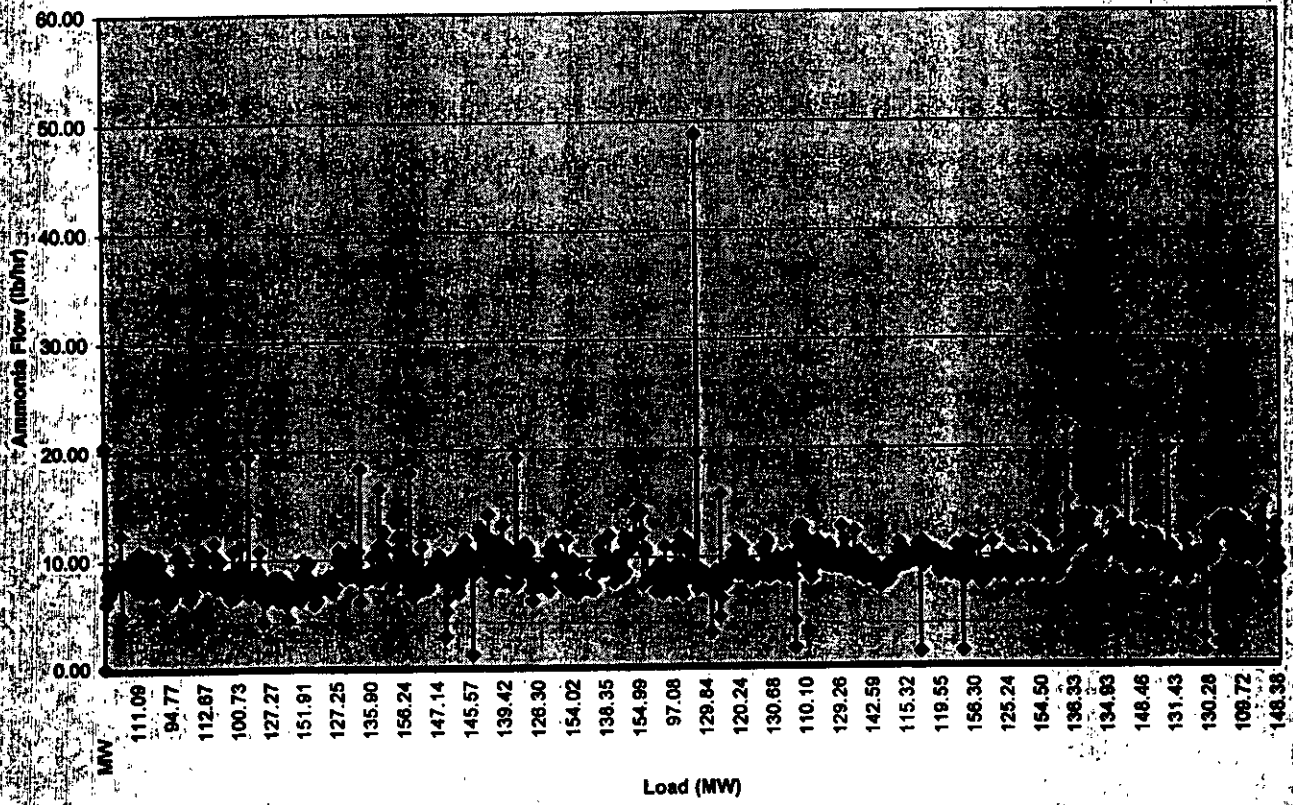
Operating Level: H

Run	Start Date	Start Time	End Run	End Date	Reference Time	Status	Monitoring Method	Gross Load Value	or Velocity
1	04/17/2003	0702	04/17/2003	0723	0723	1	0.011	0.010	164
2	04/17/2003	0736	04/17/2003	0757	0757	1	0.011	0.010	163
3	04/17/2003	0809	04/17/2003	0830	0830	1	0.011	0.010	162
4	04/17/2003	0850	04/17/2003	0911	0911	1	0.011	0.010	160
5	04/17/2003	0923	04/17/2003	0944	0944	1	0.011	0.010	160
6	04/17/2003	1000	04/17/2003	1021	1021	1	0.011	0.010	159
7	04/17/2003	1035	04/17/2003	1056	1056	1	0.011	0.010	158
8	04/17/2003	1116	04/17/2003	1137	1137	1	0.011	0.010	157
9	04/17/2003	1148	04/17/2003	1209	1209	1	0.011	0.010	157

Summary Statistics

	Reported	Recalculated
Mean of Monitoring System	0.010	0.010
Mean of Reference Method Values	0.011	0.011
Mean of Difference	0.001	0.001
Standard Deviation of Difference	0.000	0.000
Confidence Coefficient	0.000	0.000
T-Value	2.306	2.306
Relative Accuracy:	9.09	9.09
Bias Adjustment Factor	1.100	1.100
APS Flag	1	1
Indicator of Normal Op. Level	N	N
Gross Unit Load or Velocity	160	160
Reference Method Used	7e,3a	

Unit 1B Load vs Ammonia Flow



Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 24

BAYSIDE POWER STATION - CT 1C
24 - HOUR BLOCK AVERAGE - QUARTER 4, 2003

Date	24-hour block CO	24-hour block NOx
10/01/2003	0.9	2.9
10/02/2003	1.0	2.9
10/03/2003	0.8	2.9
10/04/2003	0.9	2.9
10/05/2003	0.9	2.9
10/06/2003	1.0	2.9
10/07/2003	1.0	2.9
10/08/2003	1.0	2.9
10/09/2003	0.9	2.9
10/10/2003	1.1	2.9
10/11/2003	1.2	3.1
10/12/2003	0.9	2.9
10/13/2003	0.9	2.9
10/14/2003	0.9	2.9
10/15/2003	0.8	2.9
10/16/2003	0.7	2.9
10/17/2003	1.0	2.9
10/18/2003	1.0	2.9
10/19/2003	1.0	2.9
10/20/2003	1.0	3.0
10/21/2003	1.0	2.8
10/22/2003	0.9	2.9
10/23/2003	1.0	2.9
10/24/2003	1.0	2.9
10/25/2003	0.9	2.9
10/26/2003	0.9	2.9
10/27/2003	1.0	2.9
10/28/2003	0.0	0.0
10/29/2003	1.0	2.9
10/30/2003	0.9	2.9
10/31/2003	0.9	3.1
11/01/2003	1.0	2.9
11/02/2003	1.0	2.9
11/03/2003	Offline	Offline
11/04/2003	0.9	2.9
11/05/2003	0.9	2.9
11/06/2003	1.0	2.9
11/07/2003	1.2	2.9
11/08/2003	1.0	2.9
11/09/2003	1.0	2.9
11/10/2003	0.7	2.9
11/11/2003	0.4	2.8
11/12/2003	0.5	2.9
11/13/2003	0.4	1.8
11/14/2003	0.5	2.9
11/15/2003	0.5	2.9
11/16/2003	0.4	2.9
11/17/2003	0.4	3.0
11/18/2003	0.6	3.1

11/19/2003	0.3	2.9
11/20/2003	0.4	2.9
11/21/2003	0.5	2.9
11/22/2003	0.5	2.9
11/23/2003	0.5	2.9
11/24/2003	0.4	2.9
11/25/2003	0.5	2.9
11/26/2003	0.6	2.9
11/27/2003	0.6	2.9
11/28/2003	0.5	2.9
11/29/2003	0.8	2.9
11/30/2003	0.5	2.9
12/01/2003	0.6	2.9
12/02/2003	0.5	2.9
12/03/2003	0.5	2.9
12/04/2003	0.5	2.9
12/05/2003	0.6	2.9
12/06/2003	0.6	2.9
12/07/2003	0.6	3.1
12/08/2003	1.1	2.9
12/09/2003	0.7	2.9
12/10/2003	0.5	2.9
12/11/2003	0.6	2.9
12/12/2003	0.7	2.9
12/13/2003	0.8	2.9
12/14/2003	0.6	3.1
12/15/2003	Offline	Offline
12/16/2003	Offline	Offline
12/17/2003	Offline	Offline
12/18/2003	Offline	Offline
12/19/2003	Offline	Offline
12/20/2003	0.0	0.0
12/21/2003	Offline	Offline
12/22/2003	0.6	2.9
12/23/2003	0.7	2.9
12/24/2003	0.7	2.9
12/25/2003	0.7	3.0
12/26/2003	0.7	2.9
12/27/2003	0.7	2.9
12/28/2003	0.7	2.9
12/29/2003	0.7	2.9
12/30/2003	0.7	2.9
12/31/2003	0.7	3.0

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25

**BAYSIDE POWER STATION - CT 1C
EXCLUDED DATA - QUARTER 4, 2003**

Date	Hours Data Excluded	NOx Value of Excluded Data	CO Value of Excluded Data	Reason for Exclusion
10/01/2003	0100	16.1	889.7	Shutdown
	1000	35.5	225.8	Start-up
10/07/2003	2300	8.2	79	Shutdown
10/08/2003	0500	45.2	409.9	Start-up
	0600	11.4	33.7	Start-up
10/09/2003	2400	27.2	362.1	Shutdown
10/10/2003	0500	26.4	127.3	Start-up
10/11/2003	0100	7.3	71.3	Shutdown
	0700	44.8	404	Start-up
	0800	10.9	*	Start-up
	2400	*	31.4	Shutdown
10/12/2003	0100	19.6	1905.5	Shutdown
	0900	48.9	264.2	Start-up
10/13/2003	0100	35.5	502.9	Shutdown
	0700	39.1	438.2	Start-up
	0800	18.1	59	Start-up
10/14/2003	2200	7.3	82.3	Shutdown
10/15/2003	1000	28.5	430.7	Start-up
	1100	42.1	153.6	Start-up
	2100	13	369.4	Shutdown
10/16/2003	0700	64	253.8	Start-up
10/19/2003	2300	7.6	280.2	Shutdown
10/20/2003	0500	44.2	264.7	Start-up
	2300	7.8	84.3	Shutdown
10/21/2003	0600	44.4	240.7	Start-up
	2400	35.1	464.1	Shutdown
10/22/2003	0900	42.9	393.4	Start-up
	1000	23.9	77.3	Start-up
	2400	7.1	64.7	Shutdown
10/23/2003	0500	41.3	218.4	Start-up
	2200	7.5	59.8	Shutdown
10/24/2003	0600	19.2	160.2	Start-up
10/28/2003	0100	6.7	72.6	Shutdown
10/31/2003	2100	*	54.2	Shutdown
	2200	*	2487.9	Shutdown
11/01/2003	0800	35.3	148.7	Start-up
11/02/2003	2100	25.2	367.6	Shutdown
11/04/2003	1100	48	337.7	Start-up
	1200	27.3	95.7	Start-up
	2400	6.5	99.4	Shutdown
11/05/2003	1500	8.8	611.1	Start-up
	1600	18.6	83.9	Start-up
	1900	10.6	210.3	Shutdown
11/06/2003	0700	29	479.5	Start-up
	0800	18.6	63.6	Start-up
	2400	29	499.5	Shutdown
11/07/2003	0800	23	116.4	Start-up
	2400	14.9	522.6	Shutdown

11/08/2003	1000	32.6	230.9	Start-up
	2200	11	147.9	Shutdown
11/09/2003	0900	42.9	552.6	Start-up
	1000	16.8	77.8	Start-up
11/10/2003	2100	7.2	76.7	Shutdown
11/11/2003	1400	56.2	234.2	Start-up
	2300	7.7	79.1	Shutdown
11/12/2003	0900	31.4	163.2	Start-up
11/13/2003	0100	17.7	388.3	Shutdown
	0600	45.3	351.7	Start-up
	0700	19.2	13	Start-up
	2300	*	65.7	Shutdown
11/14/2003	1600	35.5	326.7	Start-up
	1700	24	67.7	Start-up
11/16/2003	0100	38.2	443.6	Shutdown
	0700	46.9	230.3	Start-up
11/17/2003	2200	*	17.4	Shutdown
	2300	40.4	1611.2	Shutdown
11/18/2003	0700	28.7	484.3	Start-up
	0800	24.9	86.3	Start-up
	2400	*	55.7	Shutdown
11/19/2003	0600	36.4	219.5	Start-up
11/21/2003	0100	40.3	557.4	Shutdown
	0700	36.7	143.9	Start-up
11/26/2003	0100	10.1	170.4	Shutdown
	0700	38.5	434.8	Start-up
	0800	9.8	87.7	Start-up
11/27/2003	0100	9.9	92.4	Shutdown
	0900	29.2	492.1	Start-up
	1000	19.7	69.8	Start-up
	2400	25.1	302.2	Shutdown
11/28/2003	0900	25.3	606.4	Start-up
	1000	24.4	84.3	Start-up
	2400	17.8	540	Shutdown
11/29/2003	0700	53.4	397.6	Start-up
	0800	15.6	*	Start-up
12/02/2003	2400	18	449.5	Shutdown
12/03/2003	0600	45	184.8	Start-up
12/05/2003	0100	31.2	463.5	Shutdown
	0500	35.4	416.8	Start-up
	0600	15.7	21.2	Start-up
	2300	23.5	305.3	Shutdown
12/06/2003	0800	46.9	181.2	Start-up
12/07/2003	2100	*	22.4	Shutdown
	2200	27	1455.6	Shutdown
12/08/2003	0600	55.3	433.1	Start-up
	0700	18.5	*	Start-up
12/11/2003	0100	6.2	26.6	Shutdown
	0200	21.1	1449.7	Shutdown
	0600	45.6	215.7	Start-up
12/12/2003	0100	17.9	208.6	Shutdown
	0500	38.8	157.6	Start-up

12/14/2003	2100	*	24.2	Shutdown
	2200	38.8	1371.9	Shutdown
12/20/2003	0800	27.2	537.2	Start-up
	0900	45.2	269.7	Shutdown
	1000	62.3	220.3	Start-up
	1100	43.3	1185.9	Shutdown
12/22/2003	0100	2	258.5	Cold Steam Turbine Start-up
	0200	57.1	214.1	Cold Steam Turbine Start-up
	0300	59.9	493.5	Cold Steam Turbine Start-up
	1000	51.7	467.2	Cold Steam Turbine Start-up
	1100	55.1	180.6	Cold Steam Turbine Start-up
	1200	44	168.1	Cold Steam Turbine Start-up
	1300	44.3	165.2	Cold Steam Turbine Start-up
	1400	44.8	162.8	Cold Steam Turbine Start-up
	1500	45.4	161.8	Cold Steam Turbine Start-up
	1600	45.5	522.5	Cold Steam Turbine Start-up
	1700	41.4	603.9	Cold Steam Turbine Start-up
	1800	43.4	547.4	Cold Steam Turbine Start-up
	1900	18.5	18.8	Cold Steam Turbine Start-up
12/27/2003	0100	8.5	105.2	Shutdown
	0700	39.5	394.8	Start-up
	0800	28.4	98.6	Start-up
12/31/2003	2200	*	40.8	Shutdown
	2300	*	2348	Shutdown

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25

**BAYSIDE POWER STATION - CT 1C
MAINTENANCE/REPAIR OF CEMS - QUARTER 4, 2003**

Date	Unusual Maint. Or Repair of CEMS
	No Unusual Maintenance of CEMS

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25

BAYSIDE POWER STATION - CT 1C
MONITOR DOWNTIME - QUARTER 4, 2003

Date	Hours of Missing Data for Monitor Downtime	Reason for Monitor Downtime

Monitor availability:	100%
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Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25
1404 total hours

NOx: 40 CFR 75, Appendix B
 CO: 40 CFR 60, Appendix F
 Date RATA data

RATA data required pursuant to these CFRs

MONITORING DATA CHECKING SOFTWARE 4.1 BETA
 TEST SUMMARY REPORT

05/28/2003

PAGE 1

ORIS Code: 7873 State: FL
 Facility Name: BAYSIDE County: HILLSBOROUGH

Unit/ Stack	Sys Comp Test	Reported Hour/ Test Load	Recalculated Test Test
ID	Comp/Sys Parm Type Type	End Date Time #	Lvis Reason Result Result
CT1C /313 NOX	RATA (RT 610-616)	04/18/2003 1110 1 1	C Pass-APS Pass-APS
MONITORING DATA CHECKING SOFTWARE 4.1 BETA			05/28/2003
RATA REPORT (RT 610/611)			PAGE 2

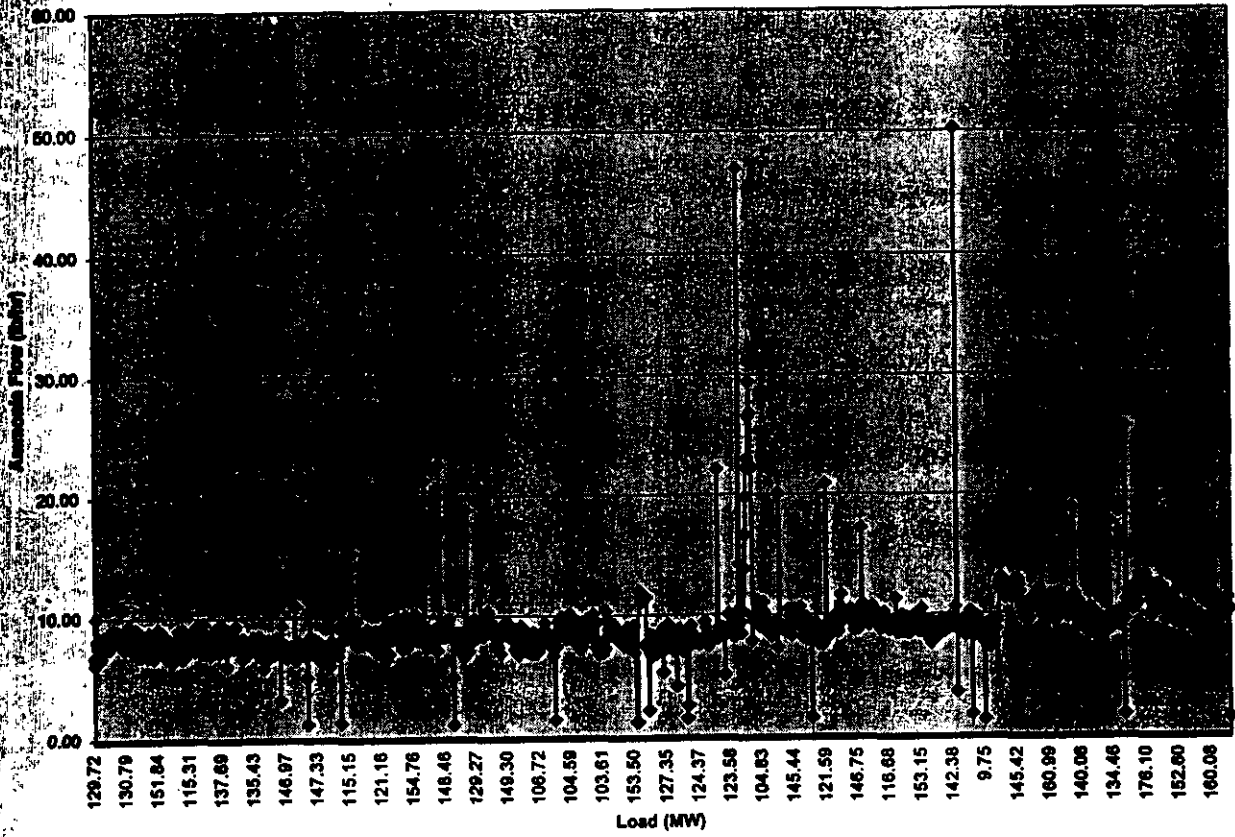
ORIS Code: 7873 Facility: BAYSIDE State: FL
 Unit/Stack ID: CT1C System ID: 313 Parameter: NOX
 Test End Date/Time: 04/18/2003 1110 Test No.: 1 # of Operating Levels: 1 Units of Measure: LB/MMBTU
 Reason for Test: C
 Performance Spec: <= 10.0% Next RATA: Four Op Qtrs
 Recalc. Results: Pass-APS % RA:16.97 Mean Diff: 0.002 BAF: 1.111
 Reported Results: Pass-APS % RA:16.97 Mean Diff: 0.002 BAF: 1.111

Operating Level: H

Run	Start Date	Start Time	End Run	End Date	Reference Time	Status	Monitoring Method	Gross Load Value	or Velocity
1	04/18/2003	0601	04/18/2003	0622	1	0.011	0.010	168	
2	04/18/2003	0652	04/18/2003	0713	1	0.012	0.010	168	
3	04/18/2003	0725	04/18/2003	0746	1	0.012	0.010	167	
4	04/18/2003	0757	04/18/2003	0818	1	0.012	0.010	165	
5	04/18/2003	0830	04/18/2003	0851	1	0.012	0.010	163	
6	04/18/2003	0904	04/18/2003	0925	1	0.012	0.010	162	
7	04/18/2003	0941	04/18/2003	1002	1	0.011	0.010	161	
8	04/18/2003	1014	04/18/2003	1035	1	0.011	0.010	160	
9	04/18/2003	1049	04/18/2003	1110	1	0.011	0.010	159	

Summary Statistics	Reported	Recalculated
Mean of Monitoring System	0.010	0.010
Mean of Reference Method Values	0.012	0.012
Mean of Difference	0.002	0.002
Standard Deviation of Difference	0.001	0.001
Confidence Coefficient	0.000	0.000
T-Value	2.306	2.306
Relative Accuracy:	16.97	16.97
Bias Adjustment Factor	1.111	1.111
APS Flag	1	1
Indicator of Normal Op. Level	N	N
Gross Unit Load or Velocity	164	164
Reference Method Used	7e,3a	

Unit 1C Load vs Ammonia Flow



Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 24

ATTACHMENT 4

**SUMMARY REPORT – NO_x EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE
NSPS SUBPART GG**

Pollutant: NO_x - Combustion Turbine

Emission Limitation: 3.5 ppmvd @ 15% O₂ on a 24-hour block average

Reporting period dates: From 10/01/03 to 012/31/03

Company: Tampa Electric Company
Address: P.O. Box 111
Tampa, FL 33601-0111

Monitor Manufacturer
and Model No.:

Thermal Environmental 42CLS

Process Unit
Description : 169 MW Combined Cycle
Combustion Turbine
(CT 2A)

Date of Latest CMS
Certification or Audit

November 2003

Total source operating
time in reporting period¹:

71

Emission Data Summary ¹	CMS Performance Summary ²
1. Duration of excess emissions in reporting period due to:	1. CMS downtime in reporting period due to:
a. Startup/Shutdown <u>6</u>	a. Monitor equipment malfunctions <u>0</u>
b. Control equipment problems <u>0</u>	b. Non-Monitor equipment malfunctions <u>0</u>
c. Process problems <u>0</u>	c. Quality assurance calibration <u>0</u>
d. Other known causes <u>0</u>	d. Other known causes <u>0</u>
e. Unknown causes <u>0</u>	e. Unknown causes <u>0</u>
2. Total duration of excess emission <u>6</u>	2. Total CMS Downtime <u>0</u>
3. <u>Total duration of excess emissions x (100)</u> Total source operating time <u>8 %</u>	3. <u>Total CMS Downtime x (100)</u> Total source operating time <u>0%</u>

Note: On a separate page, describe any changes to CMS, process or controls during last 6 months. For each quarter, summarize the ammonia injection rates over various loads and the data excluded due to startups, shutdowns, and malfunctions.

This form is used for reporting excess emission according to New Source Performance Standard (NSPS) Subpart GG only. (CO is not a regulated by Subpart GG and is reported under the semi-annual excess emission report required by Section III, permit condition 25.)

- For gases record all times in hours.
- For the reporting period: if the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in 60.7(c) shall be submitted.

TEC Note: The summary report form and the excess emission report required will also be submitted in the semi-annual report.

BAYSIDE POWER STATION - CT 2A
24 - HOUR BLOCK AVERAGE - QUARTER 4, 2003

Date	24-hour block CO	24-hour block NOx
12/20/2003	1.1	3.0
12/21/2003	1.2	3.0
12/22/2003	1.2	3.1
12/23/2003	1.1	2.9
12/24/2003	Offline	Offline
12/25/2003	Offline	Offline
12/26/2003	Offline	Offline
12/27/2003	Offline	Offline
12/28/2003	Offline	Offline
12/29/2003	Offline	Offline
12/30/2003	Offline	Offline
12/31/2003	Offline	Offline

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25

BAYSIDE POWER STATION - CT 2A
EXCLUDED DATA - QUARTER 4, 2003

Date	Hours Data Excluded	NOx Value of Excluded Data	CO Value of Excluded Data	Reason for Exclusion
12/21/2003	0800	10.9	157.7	Shutdown
12/22/2003	0800	55	457.9	Start-up
	0900	62.6	275.8	Start-up
	1000	26.1	2.6	Start-up
12/23/2003	0500	30.9	172.4	Shutdown
	0600	45.5	336.9	Start-up

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25

* Data not excluded.

**BAYSIDE POWER STATION - CT 2A
MAINTENANCE/REPAIR OF CEMS - QUARTER 4, 2003**

Date	Unusual Maint. Or Repair of CEMS
	No Unusual Maintenance of CEMS

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25

BAYSIDE POWER STATION - CT 2A
MONITOR DOWNTIME - QUARTER 4, 2003

Date	Hours of Missing Data for Monitor Downtime	Reason for Monitor Downtime

Monitor availability:	100.00%
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Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25



Environmental Services
Air Services Group

40CFR75 - APPENDIX A
RELATIVE ACCURACY TEST AUDIT

Customer: Tampa Electric Company
Facility: Bayside Power Station
Source: CT-2A
Test Date: 11/14/03

Run Number	Run Times		Unit Load	Air Services Group - Test Data			Continuous Emissions Monitor	Difference lbs/mmBtu	Run Flag
	Start	Stop		RM - 7E NO _x ppmvd	RM - 3A O ₂ %v, dry	RM - 19 NO _x lbs/mmBtu	RM - 19 NO _x lbs/mmBtu		
1	08:04	08:25	174	3.63	14.30	0.012	0.011	0.001	1
2	08:47	09:08	173	3.67	14.28	0.012	0.011	0.001	1
3	09:15	09:36	172	3.61	14.26	0.012	0.011	0.001	1
4	09:44	10:05	170	3.57	14.26	0.012	0.011	0.001	1
5	10:13	10:34	169	3.61	14.25	0.012	0.011	0.001	1
6	10:41	11:02	167	3.62	14.26	0.012	0.011	0.001	1
7	11:08	11:29	166	3.60	14.27	0.012	0.011	0.001	1
8	11:38	11:59	164	3.62	14.25	0.012	0.011	0.001	1
9	12:07	12:28	163	3.59	14.26	0.012	0.011	0.001	1
Means:			169			0.012	0.011	0.001	

Standard Deviation of Differences: 0.000
 Number of Valid Runs Included in Data Set: 9
 t-value for Data Set: 2.306
 2.5% Error Confidence Coefficient (CC) for Data Set: 0.000
 Relative Accuracy (RA), Calculated Against Mean Reference Method Value: 8.33
 Relative Accuracy (RA), Calculated As Mean Difference, Alternative Performance Specification (APS): 0.001
 Bias Test: FAILED
 Bias Adjustment Factor (BAF): 1.091
 Alternative Bias Adjustment Factor (BAF): N/A



Environmental Services
Air Services Group

40CFR75 - APPENDIX A
RELATIVE ACCURACY TEST AUDIT

Customer: Tampa Electric Company
Facility: Bayside Power Station
Source: CT-2A
Test Date: 11/14/03

Run Number	Run Times Start	Run Times Stop	Unit Load	Air Services Group - Test Data RM - 3A CO ₂ , % volume dry	Continuous Emissions Monitor CO ₂ , % volume dry	Difference CO ₂ , % volume dry	Run Flag
1	08:04	08:25	174	4.000	3.997	0.003	1
2	08:47	09:08	173	4.000	4.009	-0.009	1
3	09:15	09:36	172	4.020	4.013	0.007	1
4	09:44	10:05	170	4.010	4.013	-0.003	1
5	10:13	10:34	169	4.010	4.015	-0.005	1
6	10:41	11:02	167	4.010	4.020	-0.010	1
7	11:08	11:29	166	4.01	4.020	-0.010	1
8	11:38	11:59	164	4.01	4.020	-0.010	1
9	12:07	12:28	163	4.00	4.018	-0.018	1
Means:			169	4.008	4.014	-0.006	

Standard Deviation of Differences: 0.008
 Number of Valid Runs Included in Data Set: 9
 t-value for Data Set: 2.306
 2.5% Error Confidence Coefficient (CC) for Data Set: 0.006
 Relative Accuracy (RA): 0.30



40CFR60 - APPENDIX B, PERFORMANCE SPECIFICATION 4
RELATIVE ACCURACY TEST AUDIT

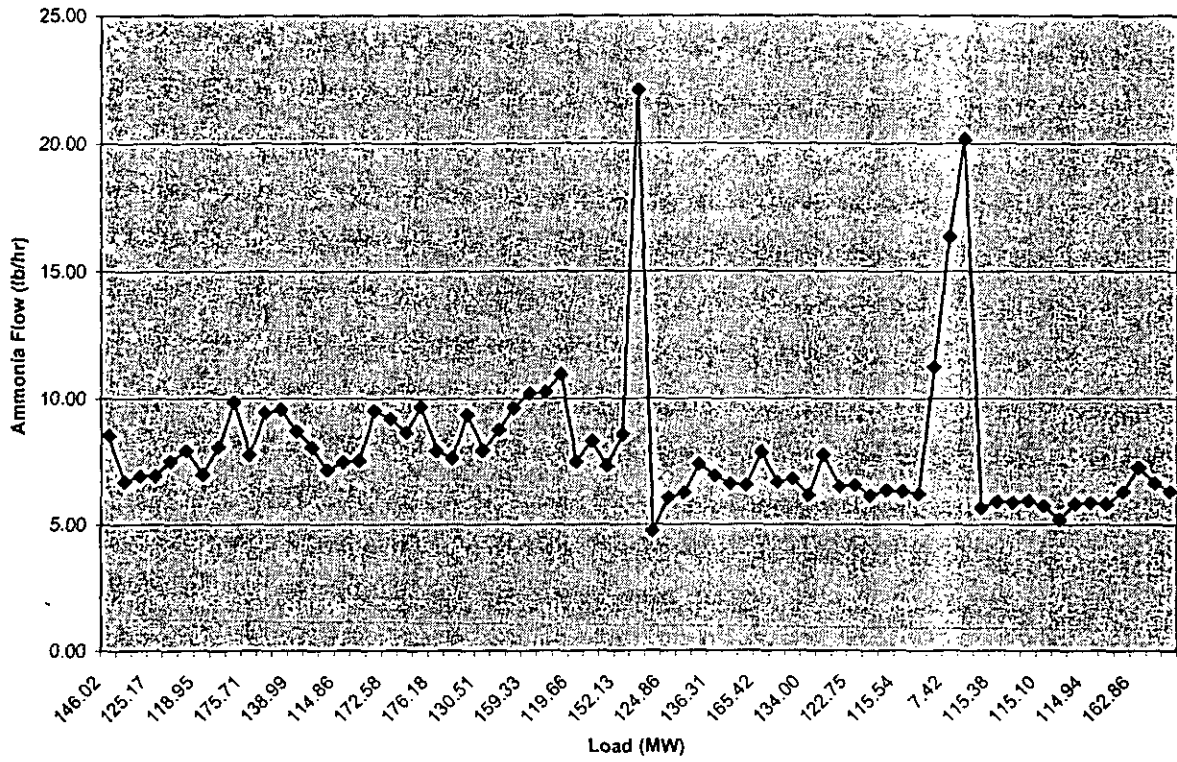
Customer: Tampa Electric Company
Facility: Bayside Power Station
Source: CT-2A
Test Date: 11/14/03

Applicable Standard: 7.8 ppmvd CO @ 15% O₂

Run Number	Run Times		Unit Load	Air Services Group - Test Data			Continuous Emissions Monitor		Difference CO ppmvd @ 15% O ₂	Run Flag	
	Start	Stop		RM -10 CO ppmvd	RM - 3A O ₂ %v, dry	CO ppmvd @ 15% O ₂	CO ppmvd	CO ppmvd @ 15% O ₂			
1	08:04	08:25	174	0.92	14.30	0.822	0.70	0.600	0.222	1	
2	08:47	09:08	173	0.90	14.28	0.802	0.70	0.600	0.202	1	
3	09:15	09:36	172	0.84	14.26	0.746	0.70	0.600	0.146	1	
4	09:44	10:05	170	0.86	14.26	0.764	0.70	0.600	0.164	1	
5	10:13	10:34	169	0.88	14.25	0.781	0.70	0.600	0.181	1	
6	10:41	11:02	167	0.86	14.26	0.764	0.70	0.600	0.164	1	
7	11:08	11:29	166	0.85	14.27	0.756	0.70	0.600	0.156	1	
8	11:38	11:59	164	0.86	14.25	0.763	0.69	0.590	0.173	1	
9	12:07	12:28	163	0.91	14.26	0.809	0.64	0.538	0.271	1	
Means: 169							0.779	0.592		0.187	

Standard Deviation of Differences: 0.039
 Number of Valid Runs Included in Data Set: 9
 t-value for Data Set: 2.306
 2.5% Error Confidence Coefficient (CC) for Data Set: 0.030
 Relative Accuracy (RA), Calculated Against Mean Reference Method Value: 27.85 %
 Relative Accuracy (RA), Calculated Against Applicable Standard: 2.78 %

Unit 2A Load vs Ammonia Flow



Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 24

**SUMMARY REPORT – NO_x EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE
NSPS SUBPART GG**

Pollutant: NO_x - Combustion Turbine

Emission Limitation: 3.5 ppmvd @ 15% O₂ on a 24-hour block average

Reporting period dates: From 10/01/03 to 12/31/03

Company: Tampa Electric Company
Address: P.O. Box 111
Tampa, FL 33601-0111

Monitor Manufacturer
and Model No.:

Thermal Environmental 42CLS

Process Unit
Description : 169 MW Combined Cycle
Combustion Turbine
(CT 2B)

Date of Latest CMS
Certification or Audit

December 2003

Total source operating
time in reporting period¹:

79

Emission Data Summary ¹		CMS Performance Summary ²	
1. Duration of excess emissions in reporting period due to:		1. CMS downtime in reporting period due to:	
a. Startup/Shutdown	<u>5</u>	a. Monitor equipment malfunctions	<u>0</u>
b. Control equipment problems	<u>0</u>	b. Non-Monitor equipment malfunctions	<u>0</u>
c. Process problems	<u>0</u>	c. Quality assurance calibration	<u>0</u>
d. Other known causes	<u>0</u>	d. Other known causes	<u>0</u>
e. Unknown causes	<u>0</u>	e. Unknown causes	<u>0</u>
2. Total duration of excess emission	<u>5</u>	2. Total CMS Downtime	<u>0</u>
3. <u>Total duration of excess emissions x (100)</u> Total source operating time	<u>6 %</u>	3. <u>Total CMS Downtime x (100)</u> Total source operating time	<u>0 %</u>

Note: On a separate page, describe any changes to CMS, process or controls during last 6 months. For each quarter, summarize the ammonia injection rates over various loads and the data excluded due to startups, shutdowns, and malfunctions.

This form is used for reporting excess emission according to New Source Performance Standard (NSPS) Subpart GG only. (CO is not a regulated by Subpart GG and is reported under the semi-annual excess emission report required by Section III, permit condition 25.)

- For gases record all times in hours.
- For the reporting period: if the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in 60.7(c) shall be submitted.

TEC Note: The summary report form and the excess emission report required will also be submitted in the semi-annual report.

BAYSIDE POWER STATION - CT 2B
24 - HOUR BLOCK AVERAGE - QUARTER 4, 2003

Date	24-hour block CO	24-hour block NOx
12/20/2003	1.2	3.0
12/21/2003	1.3	3.0
12/22/2003	1.1	3.0
12/23/2003	1.2	3.0
12/24/2003	Offline	Offline
12/25/2003	Offline	Offline
12/26/2003	Offline	Offline
12/27/2003	Offline	Offline
12/28/2003	Offline	Offline
12/29/2003	Offline	Offline
12/30/2003	Offline	Offline
12/31/2003	Offline	Offline

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25

BAYSIDE POWER STATION - CT 2B
EXCLUDED DATA - QUARTER 4, 2003

Date	Hours Data Excluded	NOx Value of Excluded Data	CO Value of Excluded Data	Reason for Exclusion
12/21/2003	1100	19.8	832.9	Shutdown
12/22/2003	0300	*	8.4	Start-up
	0400	57.6	583.9	Start-up
	0500	69.8	302.6	Start-up
	0600	33	118.1	Start-up
12/23/2003	2200	37.6	765.1	Shutdown

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25

* Data not excluded.

**BAYSIDE POWER STATION - CT 2B
MAINTENANCE/REPAIR OF CEMS - QUARTER 4, 2003**

Date	Unusual Maint. Or. Repair of CEMS
	No Unusual Maintenance of CEMS

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25



Environmental Services
Air Services Group

40CFR75 - APPENDIX A
RELATIVE ACCURACY TEST AUDIT

Customer: Tampa Electric Company
Facility: Bayside Power Station
Source: CT-2B
Test Date: 12/16/03

Run Number	Run Times		Unit Load	Air Services Group - Test Data			Continuous Emissions Monitor	Difference lbs/mmBtu	Run Flag
	Start	Stop		RM - 7E NO _x ppmvd	RM - 3A O ₂ %v, dry	RM - 19 NO _x lbs/mmBtu	RM - 19 NO _x lbs/mmBtu		
1	09:31	09:52	166	3.48	13.87	0.011	0.011	0.000	1
2	10:31	10:52	164	3.42	13.86	0.011	0.011	0.000	1
3	11:08	11:29	163	3.42	13.85	0.011	0.011	0.000	1
4	11:45	12:06	161	3.42	13.85	0.011	0.011	0.000	1
5	12:20	12:41	161	3.36	13.84	0.010	0.011	-0.001	1
6	12:53	13:14	160	3.30	13.84	0.010	0.011	-0.001	1
7	13:29	13:50	161	3.32	13.80	0.010	0.011	-0.001	1
8	14:07	14:28	161	3.39	13.80	0.010	0.011	-0.001	1
9	14:42	15:03	160	3.42	13.81	0.010	0.011	-0.001	1
Means:			162			0.010	0.011	-0.001	

Standard Deviation of Differences: 0.001
 Number of Valid Runs Included in Data Set: 9
 t-value for Data Set: 2.306
 2.5% Error Confidence Coefficient (CC) for Data Set: 0.000
 Relative Accuracy (RA), Calculated Against Mean Reference Method Value: 9.20
 Relative Accuracy (RA), Calculated As Mean Difference, Alternative Performance Specification (APS): 0.001
 Bias Test: PASSED
 Bias Adjustment Factor (BAF): 1.000



Environmental Services
Air Services Group

40CFR75 - APPENDIX A
RELATIVE ACCURACY TEST AUDIT

Customer: Tampa Electric Company
Facility: Bayside Power Station
Source: CT-2B
Test Date: 12/16/03

Run Number	Run Times Start	Run Times Stop	Unit Load	Air Services Group - Test Data RM - 3A CO ₂ , % volume dry	Continuous Emissions Monitor CO ₂ , % volume dry	Difference CO ₂ , % volume dry	Run Flag
1	09:31	09:52	166	4.080	3.814	0.266	1
2	10:31	10:52	164	4.080	3.832	0.248	1
3	11:08	11:29	163	4.090	3.848	0.242	1
4	11:45	12:06	161	4.080	3.851	0.229	1
5	12:20	12:41	161	4.100	3.839	0.261	1
6	12:53	13:14	160	4.080	3.818	0.262	1
7	13:29	13:50	161	4.070	3.820	0.250	1
8	14:07	14:28	161	4.040	3.820	0.220	1
9	14:42	15:03	160	4.040	3.820	0.220	1
Means:			162	4.073	3.829	0.244	

Standard Deviation of Differences: 0.018
 Number of Valid Runs Included in Data Set: 9
 t-value for Data Set: 2.306
 2.5% Error Confidence Coefficient (CC) for Data Set: 0.014
 Relative Accuracy (RA): 6.33



Environmental Services
Air Services Group

40CFR60 - APPENDIX B, PERFORMANCE SPECIFICATION 4
RELATIVE ACCURACY TEST AUDIT

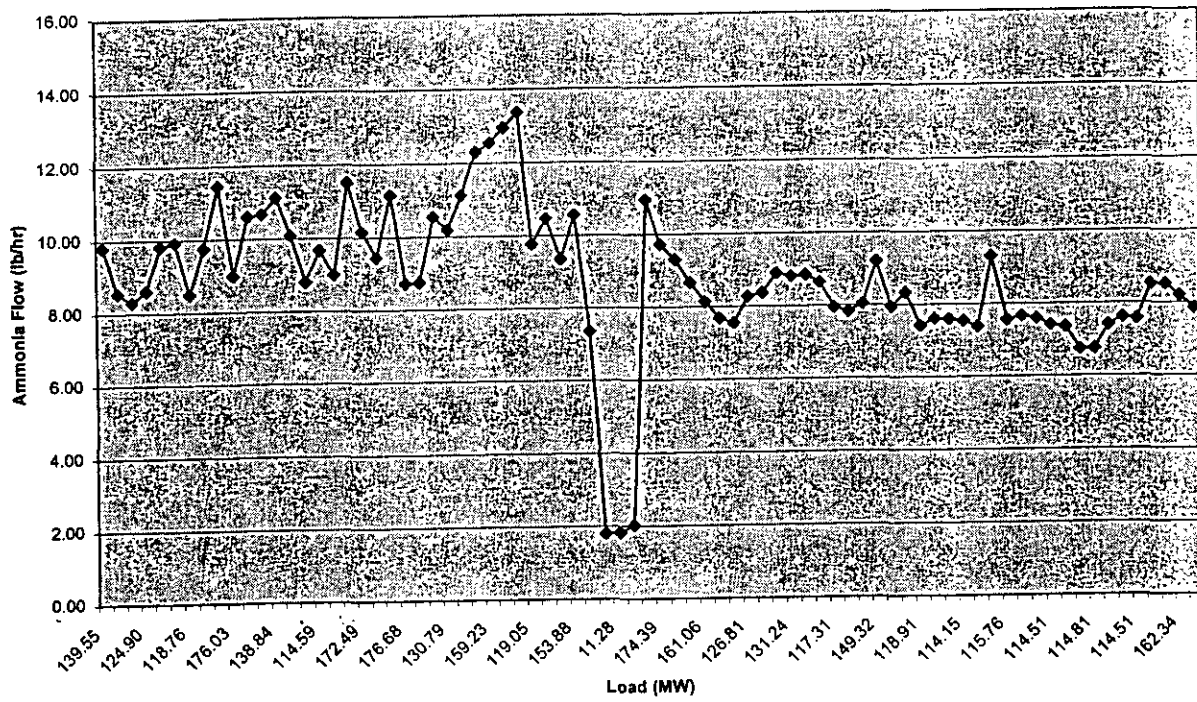
Customer: Tampa Electric Company
Facility: Bayside Power Station
Source: CT-2B
Test Date: 12/16/03

Applicable Standard: 7.8 ppmvd CO @ 15% O₂

Run Number	Run Times		Unit Load	Air Services Group - Test Data			Continuous Emissions Monitor		Difference CO ppmvd @ 15% O ₂	Run Flag
	Start	Stop		RM -10 CO ppmvd	RM - 3A O ₂ %v, dry	CO ppmvd @ 15% O ₂	CO ppmvd	CO ppmvd @ 15% O ₂		
1	09:31	09:52	166	1.05	13.87	0.881	1.32	1.165	-0.284	1
2	10:31	10:52	164	1.14	13.86	0.955	1.41	1.214	-0.259	1
3	11:08	11:29	163	0.93	13.85	0.778	1.18	1.055	-0.277	1
4	11:45	12:06	161	1.11	13.85	0.929	1.36	1.159	-0.230	1
5	12:20	12:41	161	1.27	13.84	1.061	1.54	1.332	-0.271	1
6	12:53	13:14	160	1.18	13.84	0.986	1.51	1.300	-0.314	1
7	13:29	13:50	161	1.12	13.80	0.931	1.48	1.283	-0.352	1
8	14:07	14:28	161	1.03	13.80	0.856	1.40	1.209	-0.353	1
9	14:42	15:03	160	0.90	13.81	0.749	1.30	1.100	-0.351	1
Means:			162			0.903		1.202	-0.299	

Standard Deviation of Differences: 0.045
 Number of Valid Runs Included in Data Set: 9
 t-value for Data Set: 2.306
 2.5% Error Confidence Coefficient (CC) for Data Set: 0.035
 Relative Accuracy (RA), Calculated Against Mean Reference Method Value: 36.98 %
 Relative Accuracy (RA), Calculated Against Applicable Standard: 4.28 %

Unit 2B Load vs Ammonia Flow



Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 24

**SUMMARY REPORT - NO_x EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE
NSPS SUBPART GG**

Pollutant: NO_x - Combustion Turbine

Emission Limitation: 3.5 ppmvd @ 15% O₂ on a 24-hour block average

Reporting period dates: From 10/01/03 to 12/31/03

Company: Tampa Electric Company
Address: P.O. Box 111
Tampa, FL 33601-0111

Monitor Manufacturer
and Model No.:

Thermal Environmental 42CLS

Process Unit
Description : 169 MW Combined Cycle
Combustion Turbine
(CT 2C)

Date of Latest CMS
Certification or Audit

December 2003

Total source operating
time in reporting period¹:

82

Emission Data Summary ¹		CMS Performance Summary ²	
1. Duration of excess emissions in reporting period due to:		1. CMS downtime in reporting period due to:	
a. Startup/Shutdown	<u>8</u>	a. Monitor equipment malfunctions	<u>4</u>
b. Control equipment problems	<u>0</u>	b. Non-Monitor equipment malfunctions	<u>0</u>
c. Process problems	<u>0</u>	c. Quality assurance calibration	<u>0</u>
d. Other known causes	<u>0</u>	d. Other known causes	<u>0</u>
e. Unknown causes	<u>0</u>	e. Unknown causes	<u>0</u>
2. Total duration of excess emission	<u>8</u>	2. Total CMS Downtime	<u>4</u>
3. <u>Total duration of excess emissions x (100)</u> Total source operating time	<u>10 %</u>	3. <u>Total CMS Downtime x (100)</u> Total source operating time	<u>5 %</u>

Note: On a separate page, describe any changes to CMS, process or controls during last 6 months. For each quarter, summarize the ammonia injection rates over various loads and the data excluded due to startups, shutdowns, and malfunctions.

This form is used for reporting excess emission according to New Source Performance Standard (NSPS) Subpart GG only. (CO is not a regulated by Subpart GG and is reported under the semi-annual excess emission report required by Section III, permit condition 25.)

- For gases record all times in hours.
- For the reporting period: if the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in 60.7(c) shall be submitted.

TEC Note: The summary report form and the excess emission report required will also be submitted in the semi-annual report.

BAYSIDE POWER STATION - CT 2C
24 - HOUR BLOCK AVERAGE - QUARTER 4, 2003

Date	24-hour block CO	24-hour block NOx
12/20/2003	0.9	3.0
12/21/2003	1.0	3.0
12/22/2003	0.9	3.0
12/23/2003	1.0	3.0
12/24/2003	Offline	Offline
12/25/2003	Offline	Offline
12/26/2003	Offline	Offline
12/27/2003	Offline	Offline
12/28/2003	Offline	Offline
12/29/2003	Offline	Offline
12/30/2003	Offline	Offline
12/31/2003	Offline	Offline

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25

BAYSIDE POWER STATION - CT 2C
EXCLUDED DATA - QUARTER 4, 2003

Date	Hours Data Excluded	NOx Value of Excluded Data	CO Value of Excluded Data	Reason for Exclusion
12/21/2003	1200	18.3	259.2	Shutdown
	0200	44.2	302.7	Cold Steam Turbine Start-up
	0300	66.9	172.2	Cold Steam Turbine Start-up
	0400	60.3	*	Cold Steam Turbine Start-up
	0700	54.3	*	Cold Steam Turbine Start-up
	0800	55	*	Cold Steam Turbine Start-up
	0900	18.1	*	Cold Steam Turbine Start-up
12/23/2003	2400	14.4	252.9	Shutdown

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25

BAYSIDE POWER STATION - CT 2C
MAINTENANCE/REPAIR OF CEMS - QUARTER 4, 2003

Date	Unusual Maint. Or Repair of CEMS
	No Unusual Maintenance of CEMS

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25



Environmental Services
Air Services Group

**40CFR75 - APPENDIX A
RELATIVE ACCURACY TEST AUDIT**

Customer: Tampa Electric Company
Facility: Bayside Power Station
Source: CT-2C
Test Date: 12/20/03

Run Number	Run Times		Unit Load	Air Services Group - Test Data			Continuous Emissions Monitor		Difference lbs/mmbtu	Run Flag
	Start	Stop		RM - 7E NO _x ppmvd	RM - 3A O ₂ %v, dry	RM - 19 NO _x lbs/mmBtu	RM - 19 NO _x lbs/mmBtu			
1	10:51	11:12	176	3.69	14.01	0.012	0.011	0.001	1	
2	11:30	11:51	176	3.70	14.03	0.012	0.011	0.001	1	
3	12:05	12:26	175	3.66	14.02	0.012	0.011	0.001	1	
4	12:44	13:05	175	3.64	14.00	0.011	0.011	0.000	1	
5	13:24	13:45	174	3.65	13.94	0.011	0.011	0.000	1	
6	13:55	14:16	174	3.63	13.89	0.011	0.011	0.000	1	
7	14:26	14:47	174	3.63	13.92	0.011	0.011	0.000	1	
8	14:57	15:18	174	3.64	13.96	0.011	0.011	0.000	1	
9	15:28	15:49	174	3.63	13.96	0.011	0.011	0.000	1	
Means:			175			0.011	0.011	0.000		

Standard Deviation of Differences: 0.001
 Number of Valid Runs Included in Data Set: 9
 t-value for Data Set: 2.306
 2.5% Error Confidence Coefficient (CC) for Data Set: 0.000
 Relative Accuracy (RA), Calculated Against Mean Reference Method Value: 6.33
 Relative Accuracy (RA), Calculated As Mean Difference, Alternative Performance Specification (APS): 0.000
 Bias Test: PASSED
 Bias Adjustment Factor (BAF): 1.000
 Alternative Bias Adjustment Factor (BAF): N/A



Environmental Services
Air Services Group

**40CFR75 - APPENDIX A
RELATIVE ACCURACY TEST AUDIT**

Customer: Tampa Electric Company
Facility: Bayside Power Station
Source: CT-2C
Test Date: 12/20/03

Run Number	Run Times Start	Run Times Stop	Unit Load	Air Services Group - Test Data RM - 3A CO ₂ , % volume dry	Continuous Emissions Monitor CO ₂ , % volume dry	Difference CO ₂ , % volume dry	Run Flag
1	10:51	11:12	176	4.090	3.999	0.091	1
2	11:30	11:51	176	4.080	4.000	0.080	1
3	12:05	12:26	175	4.080	4.010	0.070	1
4	12:44	13:05	175	4.080	4.007	0.073	1
5	13:24	13:45	174	4.090	4.010	0.080	1
6	13:55	14:16	174	4.090	4.019	0.071	1
7	14:26	14:47	174	4.090	4.020	0.070	1
8	14:57	15:18	174	4.090	4.022	0.068	1
9	15:28	15:49	174	4.090	4.020	0.070	1
Means:			175	4.087	4.012	0.075	

Standard Deviation of Differences: 0.007
 Number of Valid Runs Included in Data Set: 9
 t-value for Data Set: 2.306
 2.5% Error Confidence Coefficient (CC) for Data Set: 0.006
 Relative Accuracy (RA): 1.97



Environmental Services
Air Services Group

**40CFR60 - APPENDIX B, PERFORMANCE SPECIFICATION 4
RELATIVE ACCURACY TEST AUDIT**

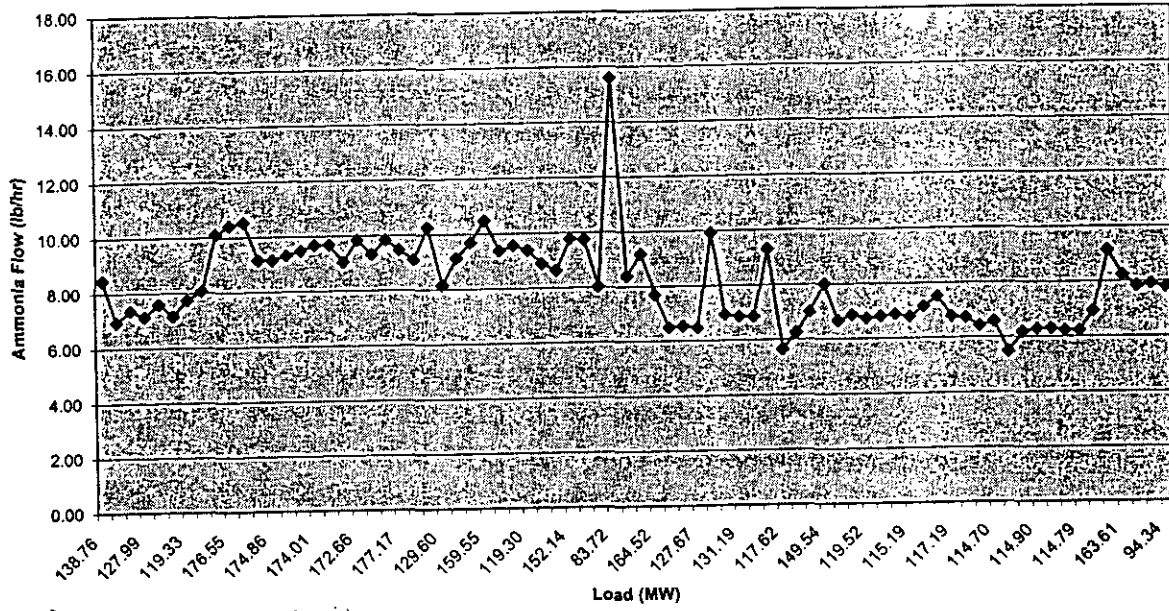
Customer: Tampa Electric Company
Facility: Bayside Power Station
Source: CT-2C
Test Date: 12/20/03

Applicable Standard: 7.8 ppmvd CO @ 15% O₂

Run Number	Run Times		Unit Load	Air Services Group - Test Data			Continuous Emissions Monitor		Difference CO ppmvd @ 15% O ₂	Run Flag	
	Start	Stop		RM -10 CO ppmvd	RM - 3A O ₂ %v, dry	CO ppmvd @ 15% O ₂	CO ppmvd	CO ppmvd @ 15% O ₂			
1	10:51	11:12	176	0.94	14.01	0.805	0.90	0.800	0.005	1	
2	11:30	11:51	176	0.96	14.03	0.824	0.90	0.800	0.024	1	
3	12:05	12:26	175	0.87	14.02	0.746	0.90	0.800	-0.054	1	
4	12:44	13:05	175	0.77	14.00	0.658	0.90	0.800	-0.142	1	
5	13:24	13:45	174	0.69	13.94	0.585	0.89	0.791	-0.206	1	
6	13:55	14:16	174	0.70	13.89	0.589	0.89	0.791	-0.202	1	
7	14:26	14:47	174	0.70	13.92	0.592	0.89	0.786	-0.194	1	
8	14:57	15:18	174	0.73	13.96	0.621	0.85	0.755	-0.134	1	
9	15:28	15:49	174	0.77	13.96	0.655	0.81	0.712	-0.057	1	
Means: 175				0.675			0.782		-0.107		

Standard Deviation of Differences: 0.089
 Number of Valid Runs Included in Data Set: 9
 t-value for Data Set: 2.306
 2.5% Error Confidence Coefficient (CC) for Data Set: 0.068
 Relative Accuracy (RA), Calculated Against Mean Reference Method Value: 25.94 %
 Relative Accuracy (RA), Calculated Against Applicable Standard: 2.24 %

Unit 2C Load vs Ammonia Flow



Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 24

**SUMMARY REPORT – NO_x EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE
NSPS SUBPART GG**

Pollutant: NO_x - Combustion Turbine

Emission Limitation: 3.5 ppmvd @ 15% O₂ on a 24-hour block average

Reporting period dates: From 10/01/03 to 12/31/03

Company: Tampa Electric Company
Address: P.O. Box 111
Tampa, FL 33601-0111

Monitor Manufacturer
and Model No.:

Thermal Environmental 42CLS

Process Unit
Description : 169 MW Combined Cycle
Combustion Turbine
(CT 2D)

Date of Latest CMS
Certification or Audit

December 2003

Total source operating
time in reporting period¹:

78

Emission Data Summary ¹	CMS Performance Summary ²
1. Duration of excess emissions in reporting period due to:	1. CMS downtime in reporting period due to:
a. Startup/Shutdown <u>4</u>	a. Monitor equipment malfunctions <u>0</u>
b. Control equipment problems <u>0</u>	b. Non-Monitor equipment malfunctions <u>0</u>
c. Process problems <u>0</u>	c. Quality assurance calibration <u>0</u>
d. Other known causes <u>0</u>	d. Other known causes <u>0</u>
e. Unknown causes <u>0</u>	e. Unknown causes <u>0</u>
2. Total duration of excess emission <u>4</u>	2. Total CMS Downtime <u>0</u>
3. <u>Total duration of excess emissions x (100)</u> Total source operating time <u>5 %</u>	3. <u>Total CMS Downtime x (100)</u> Total source operating time <u>0%</u>

Note: On a separate page, describe any changes to CMS, process or controls during last 6 months. For each quarter, summarize the ammonia injection rates over various loads and the data excluded due to startups, shutdowns, and malfunctions.

This form is used for reporting excess emission according to New Source Performance Standard (NSPS) Subpart GG only. (CO is not a regulated by Subpart GG and is reported under the semi-annual excess emission report required by Section III, permit condition 25.)

- For gases record all times in hours.
- For the reporting period: if the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in 60.7(c) shall be submitted.

TEC Note: The summary report form and the excess emission report required will also be submitted in the semi-annual report.

BAYSIDE POWER STATION - CT 2D
24 - HOUR BLOCK AVERAGE - QUARTER 4, 2003

Date	24-hour block CO	24-hour block NOx
12/20/2003	0.8	3.0
12/21/2003	1.0	3.0
12/22/2003	0.8	3.0
12/23/2003	0.9	3.0
12/24/2003	Offline	Offline
12/25/2003	Offline	Offline
12/26/2003	Offline	Offline
12/27/2003	Offline	Offline
12/28/2003	Offline	Offline
12/29/2003	Offline	Offline
12/30/2003	Offline	Offline
12/31/2003	Offline	Offline

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25

BAYSIDE POWER STATION - CT 2D
EXCLUDED DATA - QUARTER 4, 2003

Date	Hours Data Excluded	NOx Value of Excluded Data	CO Value of Excluded Data	Reason for Exclusion
12/21/2003	1200	55.2	594.8	Shutdown
12/22/2003	0800	50.9	458	Start-up
	0900	38.3	341.3	Start-up
12/24/2003	2400	5.7	41.5	Shutdown

Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 25

* Data not excluded.



Environmental Services
Air Services Group

**40CFR75 - APPENDIX A
RELATIVE ACCURACY TEST AUDIT**

Customer: Tampa Electric Company
Facility: Bayside Power Station
Source: CT-2D
Test Date: 12/17/03

Run Number	Run Times		Unit Load	Air Services Group - Test Data			Continuous Emissions Monitor		Difference lbs/mmbtu	Run Flag
	Start	Stop		RM - 7E NO _x ppmvd	RM - 3A O ₂ %v, dry	RM - 19 NO _x lbs/mmBtu	RM - 19 NO _x lbs/mmBtu			
1	09:32	09:53	172	3.74	13.84	0.012	0.011	0.001	1	
2	10:46	11:07	173	3.81	13.83	0.012	0.011	0.001	1	
3	11:23	11:44	173	3.73	13.85	0.011	0.011	0.000	1	
4	11:55	12:16	172	3.76	13.85	0.012	0.011	0.001	1	
5	12:31	12:52	172	3.76	13.84	0.012	0.011	0.001	1	
6	13:05	13:26	173	3.81	13.87	0.012	0.011	0.001	1	
7	13:42	14:03	173	3.87	13.89	0.012	0.011	0.001	1	
8	14:15	14:36	173	3.90	13.89	0.012	0.011	0.001	1	
9	14:48	15:09	173	3.95	13.88	0.012	0.011	0.001	1	
Means:			173			0.012	0.011	0.001		

Standard Deviation of Differences: 0.000
 Number of Valid Runs Included in Data Set: 9
 t-value for Data Set: 2.306
 2.5% Error Confidence Coefficient (CC) for Data Set: 0.000
 Relative Accuracy (RA), Calculated Against Mean Reference Method Value: 9.63
 Relative Accuracy (RA), Calculated As Mean Difference, Alternative Performance Specification (APS): 0.001
 Bias Test: FAILED
 Bias Adjustment Factor (BAF): 1.081
 Alternative Bias Adjustment Factor (BAF): N/A



Environmental Services
Air Services Group

40CFR75 - APPENDIX A
RELATIVE ACCURACY TEST AUDIT

Customer: Tampa Electric Company
Facility: Bayside Power Station
Source: CT-2D
Test Date: 12/17/03

Run Number	Run Times Start	Run Times Stop	Unit Load	Air Services Group - Test Data RM - 3A CO ₂ , % volume dry	Continuous Emissions Monitor CO ₂ , % volume dry	Difference CO ₂ , % volume dry	Run Flag
1	09:32	09:53	172	4.150	4.084	0.066	1
2	10:46	11:07	173	4.140	4.080	0.060	1
3	11:23	11:44	173	4.110	4.071	0.039	1
4	11:55	12:16	172	4.090	4.075	0.015	1
5	12:31	12:52	172	4.090	4.071	0.019	1
6	13:05	13:26	173	4.090	4.089	0.001	1
7	13:42	14:03	173	4.100	4.119	-0.019	1
8	14:15	14:36	173	4.100	4.140	-0.040	1
9	14:48	15:09	173	4.100	4.146	-0.046	1
Means:			173	4.108	4.097	0.011	

Standard Deviation of Differences: 0.041
 Number of Valid Runs Included in Data Set: 9
 t-value for Data Set: 2.306
 2.5% Error Confidence Coefficient (CC) for Data Set: 0.031
 Relative Accuracy (RA): 1.02



40CFR60 - APPENDIX B, PERFORMANCE SPECIFICATION 4
RELATIVE ACCURACY TEST AUDIT

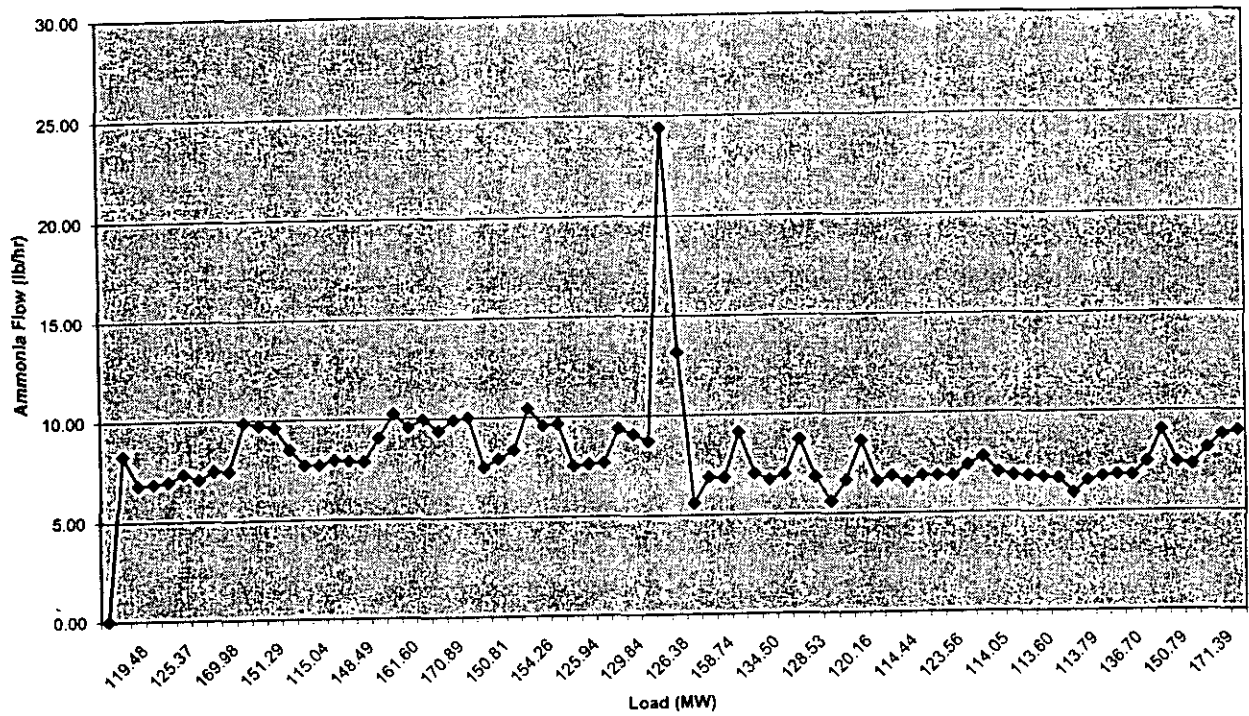
Customer: Tampa Electric Company
Facility: Bayside Power Station
Source: CT-2D
Test Date: 12/17/03

Applicable Standard: 7.8 ppmvd CO @ 15% O₂

Run Number	Run Times		Unit Load	Air Services Group - Test Data			Continuous Emissions Monitor		Difference CO ppmvd @ 15% O ₂	Run Flag
	Start	Stop		RM -10 CO ppmvd	RM - 3A O ₂ %v, dry	CO ppmvd @ 15% O ₂	CO ppmvd	CO ppmvd @ 15% O ₂		
1	09:32	09:53	172	0.87	13.84	0.727	0.95	0.781	-0.054	1
2	10:46	11:07	173	0.82	13.83	0.684	0.96	0.773	-0.089	1
3	11:23	11:44	173	0.87	13.85	0.728	0.96	0.777	-0.049	1
4	11:55	12:16	172	0.83	13.85	0.695	0.98	0.786	-0.091	1
5	12:31	12:52	172	0.96	13.84	0.802	0.96	0.764	0.038	1
6	13:05	13:26	173	0.99	13.87	0.831	0.90	0.709	0.122	1
7	13:42	14:03	173	0.93	13.89	0.783	0.85	0.700	0.083	1
8	14:15	14:36	173	0.93	13.89	0.783	0.80	0.686	0.097	1
9	14:48	15:09	173	0.96	13.88	0.807	0.80	0.627	0.180	1
Means: 173						0.760		0.734	0.026	

Standard Deviation of Differences: 0.100
Number of Valid Runs Included in Data Set: 9
t-value for Data Set: 2.306
2.5% Error Confidence Coefficient (CC) for Data Set: 0.077
Relative Accuracy (RA), Calculated Against Mean Reference Method Value: 13.60 %
Relative Accuracy (RA), Calculated Against Applicable Standard: 1.32 %

Unit 2D Load vs Ammonia Flow



Per Air Permit No. 0570040-015-AC, Section III, Specific Condition 24



ATTACHMENT 5



**40 CFR 60
APPENDIX F
DATA ASSESSMENT REPORT**

Period Ending Date: December 31, Year: 2003

Company Name: Tampa Electric Company

Plant Name: Bayside Power Station Source ORIS Code 7873

Source Common Name: Unit 1 EU No.: 020, 021, 022

CEMS Information

	CT-1A	CT-1B	CT-1C
CO Manufacturer:	Thermo Environmental		
CO Model Number:	48C		
CO Serial Number:	48C-73684-374	48C-73423-373	48C-73685-374
CO Span Value:	Dual Range 0-20/0-1000 ppmv		

CO ₂ Manufacturer:	Siemens		
CO ₂ Model Number:	Ultramat - 6		
CO ₂ Serial Number	N1-ND-0876	N1-ND-0870	N1-ND-0877
CO ₂ Span Value:	0 - 10% volume		

Note: Cylinder Gas Audit Relative Accuracy (RA) calculated as:
 $A = ((C_m - C_a) / C_a) \times 100$

Where:

C_m = Average of CEMS response during audit in units of applicable standard or appropriate concentration.
C_a = Average audit value (CGA certified value or three-run average for RAA) in units of applicable standard or appropriate concentration.

Appendix F, Equation 1-1

Additionally, low range analyzers that fail to meet the ± 15% are subject to a ± 5 ppm "criteria for excessive audit inaccuracy" as specified in Appendix F, 5.2.3 and calculated as:

$$C_m - C_a$$

1. Accuracy Assessment Results - Quarter 4, 2003

B. Cylinder Gas Audit for CO in ppm.

CT-1A

Low-range

	Audit <u>Point #1</u>		Audit <u>Point #2</u>
Audit Date:	10/18/2003		10/18/2003
Cylinder ID Number:	ALM - 066579		AAL - 955
Certification Date:	07/28/2003		09/14/2003
Certification Type:	USEPA Protocol 1, Procedure G1		
Certified Value:	5.17	ppm	11.10
CEMs Response:	5.300	ppm	11.367
RA (\pm 15%):	2.51	%	2.41
RA (\pm 5 ppm):	N/A	ppm	N/A

High-range

	Audit <u>Point #1</u>		Audit <u>Point #2</u>
Audit Date:	10/18/2003		10/18/2003
Cylinder ID Number:	ALM - 050741		ALM - 032306
Certification Date:	01/31/2003		09/09/2003
Certification Type:	USEPA Protocol 1, Procedure G1		
Certified Value:	244.0	ppm	545.0
CEMs Response:	249.600	ppm	544.667
Accuracy:	2.30	%	-0.06

1. Accuracy Assessment Results - Quarter 4, 2003

B. Cylinder Gas Audit for CO in ppm.

CT-1B

Low-range

	<u>Audit Point #1</u>		<u>Audit Point #2</u>
Audit Date:	10/27/2003		10/27/2003
Cylinder ID Number:	ALM - 066579		AAL - 19084
Certification Date:	07/28/2003		08/03/2003
Certification Type:	USEPA Protocol 1, Procedure G1		
Certified Value:	5.17	ppm	11.40
CEMs Response:	6.067	ppm	11.900
RA (\pm 15%):	17.35	%	4.39
RA (\pm 5 ppm):	0.90	ppm	N/A

High-range

	<u>Audit Point #1</u>		<u>Audit Point #2</u>
Audit Date:	10/27/2003		10/27/2003
Cylinder ID Number:	AAL - 18340		ALM - 046642
Certification Date:	02/20/2003		07/21/2003
Certification Type:	USEPA Protocol 1, Procedure G1		
Certified Value:	254.0	ppm	554.0
CEMs Response:	261.400	ppm	526.800
Accuracy:	2.91	%	-4.91

1. Accuracy Assessment Results - Quarter 4, 2003

B. Cylinder Gas Audit for CO in ppm.

CT-1C

Low-range

	Audit <u>Point #1</u>		Audit <u>Point #2</u>
Audit Date:	10/27/2003		10/27/2003
Cylinder ID Number:	ALM - 066579		AAL - 19084
Certification Date:	07/28/2003		08/03/2003
Certification Type:	USEPA Protocol 1, Procedure G1		
Certified Value:	5.17	ppm	11.40
CEMs Response:	5.667	ppm	11.267
RA (\pm 15%):	9.61	%	-1.17
RA (\pm 5 ppm):	N/A	ppm	N/A

High-range

	Audit <u>Point #1</u>		Audit <u>Point #2</u>
Audit Date:	10/27/2003		10/27/2003
Cylinder ID Number:	AAL - 18340		ALM - 046642
Certification Date:	02/20/2003		07/21/2003
Certification Type:	USEPA Protocol 1, Procedure G1		
Certified Value:	254.0	ppm	554.0
CEMs Response:	274.667	ppm	566.500
Accuracy:	8.14	%	2.26

1. Accuracy Assessment Results - Quarter 4, 2003

B. Cylinder Gas Audit for CO₂ in %v/v.

CT-1A

	Audit Point #1		Audit Point #2
Audit Date:	10/18/2003		10/18/2003
Cylinder ID Number:	ALM - 045675		ALM - 046413
Certification Date:	02/04/2003		08/29/2003
Certification Type:	USEPA Protocol 1, Procedure G1		
Certified Value:	2.06	%, v/v	5.51
CEMs Response:	2.067	%, v/v	5.500
Accuracy:	0.34	%	-0.18

1. Accuracy Assessment Results - Quarter 4, 2003

B. Cylinder Gas Audit for CO₂ in %v/v.

CT-1B

	Audit <u>Point #1</u>		Audit <u>Point #2</u>
Audit Date:	10/27/2003		10/27/2003
Cylinder ID Number:	ALM - 045052		ALM - 039271
Certification Date:	02/20/2003		08/27/2002
Certification Type:	USEPA Protocol 1, Procedure G1		
Certified Value:	2.53	%, v/v	5.46
CEMs Response:	2.600	%, v/v	5.433
Accuracy:	2.77	%	-0.49

1. Accuracy Assessment Results - Quarter 4, 2003

B. Cylinder Gas Audit for CO₂ in %v/v.

CT-1C

	Audit <u>Point #1</u>		Audit <u>Point #2</u>
Audit Date:	10/27/2003		10/27/2003
Cylinder ID Number:	ALM - 045052		ALM - 039271
Certification Date:	02/20/2003		08/27/2002
Certification Type:	USEPA Protocol 1, Procedure G1		
Certified Value:	2.53	%, v/v	5.46
CEMs Response:	2.500	%, v/v	5.300
Accuracy:	-1.19	%	-2.93

2. Calibration Drift Assessment.

A. Out-of-control periods.

1. Date(s): _____

2. Number of days:

B. Corrective Action Taken.



Environmental Services
Air Services Group

40 CFR 60
APPENDIX F
DATA ASSESSMENT REPORT

Period Ending Date: December 31, Year: 2003

Company Name: Tampa Electric Company

Plant Name: Bayside Power Station Source ORIS Code 7873

Source Common Name: Unit 2 EU No.: 023, 024, 025, 026

CEMS Information

	CT-2A	CT-2B	CT-2C	CT-2D
CO Manufacturer:	Thermo Environmental			
CO Model Number:	48C			
CO Serial Number:	48C-74345-376	48C-74342-376	48C-74343-376	48C-73683-374
CO Span Value:	Dual Range 0-20/0-1000 ppmv			

CO ₂ Manufacturer:	Siemens			
CO ₂ Model Number:	Ultramat - 6			
CO ₂ Serial Number	N1-ND-0892	N1-ND-0897	N1-ND-0984	N1-ND-0893
CO ₂ Span Value:	0 - 10% volume			

1. Accuracy Assessment Results

A. Relative Accuracy Test Audit(s) for CO in ppm.

	<u>CT - 2A</u>		
Audit Date:	11/14/2003		
Reference Method(s) Employed:	10/3a		
Average Reference Method Value:	0.779	ppmvd @ 15% O ₂	
Average CEM Value:	0.592	ppmvd @ 15% O ₂	
Absolute Value of Mean Difference:	0.187	ppmvd @ 15% O ₂	
Confidence Coefficient:	0.030	ppmvd @ 15% O ₂	
Percent Relative Accuracy (mean of reference methods):		27.9	%
Percent Relative Accuracy (applicable standard):		2.78	%

The applicable standard for this unit is 7.8 ppmvd @ 15% O₂.

1. Accuracy Assessment Results

A. Relative Accuracy Test Audit(s) for CO in ppm.

	<u>CT - 2B</u>		
Audit Date:	11/12/2003		
Reference Method(s) Employed:	10/3a		
Average Reference Method Value:	0.717	ppmvd @ 15% O ₂	
Average CEM Value:	0.630	ppmvd @ 15% O ₂	
Absolute Value of Mean Difference:	0.087	ppmvd @ 15% O ₂	
Confidence Coefficient:	0.013	ppmvd @ 15% O ₂	
Percent Relative Accuracy (mean of reference methods):		14.07	%
Percent Relative Accuracy (applicable standard):		1.29	%

The applicable standard for this unit is 7.8 ppmvd @ 15% O₂.

1. Accuracy Assessment Results

A. Relative Accuracy Test Audit(s) for CO in ppm.

	<u>CT - 2C</u>		
Audit Date:	12/20/2003		
Reference Method(s) Employed:	10/3a		
Average Reference Method Value:	0.675	ppmvd @ 15% O ₂	
Average CEM Value:	0.782	ppmvd @ 15% O ₂	
Absolute Value of Mean Difference:	0.107	ppmvd @ 15% O ₂	
Confidence Coefficient:	0.068	ppmvd @ 15% O ₂	
Percent Relative Accuracy (mean of reference methods):	25.9	%	
Percent Relative Accuracy (applicable standard):	2.24	%	

The applicable standard for this unit is 7.8 ppmvd @ 15% O₂.

1. Accuracy Assessment Results

A. Relative Accuracy Test Audit(s) for CO in ppm.

	<u>CT - 2D</u>		
Audit Date:	12/17/2003		
Reference Method(s) Employed:	10/3a		
Average Reference Method Value:	0.760	ppmvd @ 15% O ₂	
Average CEM Value:	0.734	ppmvd @ 15% O ₂	
Absolute Value of Mean Difference:	0.026	ppmvd @ 15% O ₂	
Confidence Coefficient:	0.077	ppmvd @ 15% O ₂	
Percent Relative Accuracy (mean of reference methods):		13.6	%
Percent Relative Accuracy (applicable standard):		1.32	%

The applicable standard for this unit is 7.8 ppmvd @ 15% O₂.

1. Accuracy Assessment Results

A. Relative Accuracy Test Audit(s) for CO₂ in % volume.

	<u>CT - 2A</u>	
Audit Date:	11/14/2003	
Reference Method(s) Employed:	3A	
Average Reference Method Value:	4.008	% volume
Average CEM Value:	4.014	% volume
Absolute Value of Mean Difference:	0.006	% volume
Confidence Coefficient:	0.006	% volume
Percent Relative Accuracy (mean of reference methods):	0.30 %	
Percent Relative Accuracy (absolute difference):	0.01 % volume	

1. Accuracy Assessment Results

A. Relative Accuracy Test Audit(s) for CO₂ in % volume.

Audit Date:	<u>CT - 2B</u> 11/12/2003	
Reference Method(s) Employed:	3A	
Average Reference Method Value:	4.060	% volume
Average CEM Value:	3.969	% volume
Absolute Value of Mean Difference:	0.090	% volume
Confidence Coefficient:	0.025	% volume
Percent Relative Accuracy (mean of reference methods):		2.83 %
Percent Relative Accuracy (absolute difference):		0.09 % volume

1. Accuracy Assessment Results

A. Relative Accuracy Test Audit(s) for CO₂ in % volume.

Audit Date:	<u>CT - 2C</u> 12/20/2003	
Reference Method(s) Employed:	3A	
Average Reference Method Value:	4.087	% volume
Average CEM Value:	4.012	% volume
Absolute Value of Mean Difference:	0.075	% volume
Confidence Coefficient:	0.006	% volume
Percent Relative Accuracy (mean of reference methods):		1.98 %
Percent Relative Accuracy (absolute difference):		0.08 % volume

1. Accuracy Assessment Results

A. Relative Accuracy Test Audit(s) for CO₂ in % volume.

Audit Date:	<u>CT - 2D</u> 12/17/2003	
Reference Method(s) Employed:	3A	
Average Reference Method Value:	4.108	% volume
Average CEM Value:	4.097	% volume
Absolute Value of Mean Difference:	0.011	% volume
Confidence Coefficient:	0.031	% volume
Percent Relative Accuracy (mean of reference methods):		1.02 %
Percent Relative Accuracy (absolute difference):		0.01 % volume

1. Accuracy Assessment Results Quarter 4, 2003

B. Cylinder Gas Audit for CO in ppm.

CT-2A

Low-range

	Audit <u>Point #1</u>		Audit <u>Point #2</u>
Audit Date:	10/07/2003		10/07/2003
Cylinder ID Number:	ALM - 066579		AAL - 18045
Certification Date:	07/28/2003		09/01/2003
Certification Type:	USEPA Protocol 1, Procedure G1		
Certified Value:	5.17	ppm	11.00
CEMs Response:	5.100	ppm	11.000
Accuracy:	-1.35	%	0.00

High-range

	Audit <u>Point #1</u>		Audit <u>Point #2</u>
Audit Date:	10/07/2003		10/07/2003
Cylinder ID Number:	ALM - 034825		ALM - 064853
Certification Date:	09/01/2003		08/31/2003
Certification Type:	USEPA Protocol 1, Procedure G1		
Certified Value:	249.0	ppm	542.0
CEMs Response:	247.300	ppm	540.767
Accuracy:	-0.68	%	-0.23

1. Accuracy Assessment Results Quarter 4, 2003

B. Cylinder Gas Audit for CO in ppm.

CT-2B

Low-range

	Audit <u>Point #1</u>		Audit <u>Point #2</u>
Audit Date:	09/05/2003		09/05/2003
Cylinder ID Number:	ALM - 045402		AAL - 18045
Certification Date:	03/02/2002		AAL - 18045
Certification Type:	USEPA Protocol 1, Procedure G1		
Certified Value:	5.08	ppm	11.00
GEMs Response:	5.067	ppm	10.967
Accuracy:	-0.26	%	-0.30

High-range

	Audit <u>Point #1</u>		Audit <u>Point #2</u>
Audit Date:	09/05/2003		09/05/2003
Cylinder ID Number:	ALM - 034825		ALM - 064853
Certification Date:	09/01/2003		08/31/2003
Certification Type:	USEPA Protocol 1, Procedure G1		
Certified Value:	249.0	ppm	542.0
CEMs Response:	250.733	ppm	539.867
Accuracy:	0.70	%	-0.39

1. Accuracy Assessment Results Quarter 4, 2003

B. Cylinder Gas Audit for CO in ppm.

CT-2C

Low-range

	Audit Point #1		Audit Point #2
Audit Date:	11/18/2003		11/18/2003
Cylinder ID Number:	ALM - 005846		IL - 1617
Certification Date:	02/18/2002		02/02/2003
Certification Type:	USEPA Protocol 1, Procedure G1		
Certified Value:	6.07	ppm	11.30
CEMs Response:	6.000	ppm	11.367
Accuracy:	-1.15	%	0.59

High-range

	Audit Point #1		Audit Point #2
Audit Date:	11/18/2003		11/18/2003
Cylinder ID Number:	ALM - 034825		ALM - 054618
Certification Date:	09/01/2003		10/13/2003
Certification Type:	USEPA Protocol 1, Procedure G1		
Certified Value:	249.0	ppm	553.0
CEMs Response:	246.967	ppm	548.733
Accuracy:	-0.82	%	-0.77

1. Accuracy Assessment Results Quarter 4, 2003

B. Cylinder Gas Audit for CO in ppm.

CT-2D

Low-range

	Audit <u>Point #1</u>		Audit <u>Point #2</u>
Audit Date:	11/14/2003		11/14/2003
Cylinder ID Number:	ALM - 005846		IL - 1617
Certification Date:	02/18/2002		02/02/2003
Certification Type:	USEPA Protocol 1, Procedure G1		
Certified Value:	6.07	ppm	11.30
CEMs Response:	6.000	ppm	11.200
Accuracy:	-1.15	%	-0.88

High-range

	Audit <u>Point #1</u>		Audit <u>Point #2</u>
Audit Date:	11/14/2003		11/14/2003
Cylinder ID Number:	ALM - 034825		ALM - 054618
Certification Date:	09/01/2003		10/13/2003
Certification Type:	USEPA Protocol 1, Procedure G1		
Certified Value:	249.0	ppm	553.0
CEMs Response:	248.200	ppm	550.300
Accuracy:	-0.32	%	-0.49

1. Accuracy Assessment Results Quarter 4, 2003

B. Cylinder Gas Audit for CO₂ in %v/v.

CT-2A

	Audit Point #1		Audit Point #2
Audit Date:	10/09/2003		10/09/2003
Cylinder ID Number:	ALM - 019353		ALM - 060212
Certification Date:	09/01/2003		08/29/2003
Certification Type:	USEPA Protocol 1, Procedure G1		
Certified Value:	2.5	%, v/v	5.50
CEMs Response:	2.533	%, v/v	5.500
Accuracy:	1.32	%	0.00

1. Accuracy Assessment Results Quarter 4, 2003

B. Cylinder Gas Audit for CO₂ in %v/v.

CT-2B

	Audit <u>Point #1</u>		Audit <u>Point #2</u>
Audit Date:	09/05/2003		09/05/2003
Cylinder ID Number:	ALM - 019353		ALM - 060212
Certification Date:	09/01/2003		08/29/2003
Certification Type:	USEPA Protocol 1, Procedure G1		
Certified Value:	2.5	%, v/v	5.5
CEMs Response:	2.500	%, v/v	5.500
Accuracy:	0.00	%	0.00

1. Accuracy Assessment Results Quarter 4, 2003

B. Cylinder Gas Audit for CO₂ in %v/v.

CT-2C

	<u>Audit Point #1</u>		<u>Audit Point #2</u>
Audit Date:	11/18/2003		11/18/2003
Cylinder ID Number:	ALM - 019353		ALM - 035365
Certification Date:	09/01/2003		09/02/2003
Certification Type:	USEPA Protocol 1, Procedure G1		
Certified Value:	2.5	% , v/v	5.5
CEMs Response:	2.533	% , v/v	5.500
Accuracy:	1.32	%	0.00

1. Accuracy Assessment Results Quarter 4, 2003

B. Cylinder Gas Audit for CO₂ in %v/v.

CT-2D

	<u>Audit Point #1</u>		<u>Audit Point #2</u>
Audit Date:	11/16/2003		11/16/2003
Cylinder ID Number:	ALM - 019353		ALM - 035365
Certification Date:	09/01/2003		09/02/2003
Certification Type:	USEPA Protocol 1, Procedure G1		
Certified Value:	2.5	%, v/v	5.5
CEMs Response:	2.533	%, v/v	5.500
Accuracy:	1.32	%	0.00

2. Calibration Drift Assessment.

A. Out-of-control periods.

1. Date(s): _____

2. Number of days: _____

B. Corrective Action Taken.