

**FLORIDA POWER AND LIGHT CO.
SANFORD UNIT NO. CT-5B**

04/23/03

CALIBRATION ERROR

SPAN SETTING	CAL GAS	TANK VALUE	ANALYZER VALUE	DIFF PPM	% SPAN	ANALYZER SERIAL #
25	ppm NOx	0.00	0.00	0.0	0.0	951A-01006309
	ppm NOx	14.48	14.42	-0.1	-0.2	
	ppm NOx	24.43	24.40	0.0	-0.1	
25	% O2	0.00	0.00	0.0	0.0	01420B701856
	% O2	12.60	12.50	-0.1	-0.4	
	% O2	22.40	22.50	0.1	0.4	
10	% CO2	0.00	0.00	0.0	0.0	01415c/1245
	% CO2	5.16	5.10	-0.1	-0.6	
	% CO2	9.18	9.10	-0.1	-0.8	

Run 1

SYSTEM BIAS AND CALBRATION DRIFT DATA

GAS UNITS	ANALYZER VALUE	PRETEST CHECK	% SPAN	POSTTEST CHECK	% SPAN	% DRIFT
ppm NOx	0.00	0.02	0.1	0.03	0.1	0.0
ppm NOx	14.42	14.5	0.3	14.5	0.3	0.0
% O2	0.0	0.0	0.0	0.0	0.0	0.0
% O2	12.5	12.5	0.0	12.5	0.0	0.0
% CO2	0.0	0.0	0.0	0.0	0.0	0.0
% CO2	5.10	5.20	1.0	5.20	1.0	0.0

UNCORRECTED REFERENCE DATA

Year	Month	Day	Hour	Minute	NOx PPM	% O2	% CO2
2003	4	23	5	38	10.29	13.53	4.33
2003	4	23	5	40	10.36	13.52	4.37
2003	4	23	5	42	10.30	13.54	4.33
2003	4	23	5	44	10.17	13.56	4.24
2003	4	23	5	46	10.27	13.55	4.32
2003	4	23	5	48	10.20	13.55	4.32
2003	4	23	5	50	10.16	13.56	4.32
2003	4	23	5	52	10.15	13.56	4.32
2003	4	23	5	54	10.13	13.58	4.32
2003	4	23	5	56	10.12	13.57	4.32
2003	4	23	5	58	10.14	13.57	4.32
2003	4	23	6	0	10.10	13.57	4.32

MEAN REFERENCE DATA

NOx ppm	10.20
% O2	13.56
% CO2	4.32
F Factor	8710

Run 1

CORRECTED RESULTS

NOx PPM	10.18
% O2	13.66
% CO2	4.29
CORRECTED NOx PPM	8.30
LB/MMBTU NOx	0.031

**FLORIDA POWER AND LIGHT CO.
SANFORD UNIT NO. CT-5B**

04/23/03

CALIBRATION ERROR

SPAN SETTING	CAL GAS	TANK VALUE	ANALYZER VALUE	DIFF PPM	% SPAN	ANALYZER SERIAL #
25	ppm NOx	0.00	0.00	0.0	0.0	951A-01006309
	ppm NOx	14.48	14.42	-0.1	-0.2	
	ppm NOx	24.43	24.40	0.0	-0.1	
25	% O2	0.00	0.00	0.0	0.0	01420B701856
	% O2	12.60	12.50	-0.1	-0.4	
	% O2	22.40	22.50	0.1	0.4	
10	% CO2	0.00	0.00	0.0	0.0	01415c/1245
	% CO2	5.16	5.10	-0.1	-0.6	
	% CO2	9.18	9.10	-0.1	-0.8	

Run 2

SYSTEM BIAS AND CALBRATION DRIFT DATA

GAS UNITS	ANALYZER VALUE	PRETEST CHECK	% SPAN	POSTTEST CHECK	% SPAN	% DRIFT
ppm NOx	0.00	0.02	0.1	0.03	0.1	0.0
ppm NOx	14.42	14.5	0.3	14.5	0.3	0.0
% O2	0.0	0.0	0.0	0.0	0.0	0.0
% O2	12.5	12.5	0.0	12.5	0.0	0.0
% CO2	0.0	0.0	0.0	0.0	0.0	0.0
% CO2	5.10	5.20	1.0	5.20	1.0	0.0

UNCORRECTED REFERENCE DATA

Year	Month	Day	Hour	Minute	NOx PPM	% O2	% CO2
2003	4	23	6	2	10.12	13.57	4.24
2003	4	23	6	4	10.10	13.57	4.32
2003	4	23	6	6	10.09	13.57	4.32
2003	4	23	6	8	10.13	13.57	4.32
2003	4	23	6	10	10.11	13.57	4.32
2003	4	23	6	12	10.10	13.58	4.32
2003	4	23	6	14	10.09	13.58	4.32
2003	4	23	6	16	10.09	13.58	4.35
2003	4	23	6	18	10.11	13.58	4.32
2003	4	23	6	20	10.11	13.58	4.32
2003	4	23	6	22	10.11	13.58	4.32
2003	4	23	6	24	10.10	13.58	4.32

MEAN REFERENCE DATA

NOx ppm	10.11
% O2	13.58
% CO2	4.31
F Factor	8710

Run 2

CORRECTED RESULTS

NOx PPM	10.08
% O2	13.68
% CO2	4.28
CORRECTED NOx PPM	8.24
LB/MMBTU NOx	0.030

FLORIDA POWER AND LIGHT COMPANY
 ENGINEERING AND TECHNICAL SERVICES
 700 UNIVERSE BLVD.
 JUNO BEACH, FLORIDA 33408

NO_x LBS/MMBTU RELATIVE ACCURACY

PLANT: SANFORD
 UNIT: CT 4-B STACK
 LOAD: NORMAL ~~158 MW~~
 DATE: 4/14/2003 161

ANALYZER: TECO 42-CLS
 SERIAL # 76009-381

RUN	TIME START	TIME END	REFERENCE METHOD (lb/mmBTU)	CEM RESPONSE (lb/mmBTU)	ARITHMATIC DIFFERENCE	DIFFERENCE SQUARED
1	1235	1256	0.024	0.024	0.000	0.000000
2	1308	1329	0.024	0.024	0.000	0.000000
3	1339	1400	0.024	0.024	0.000	0.000000
4	1417	1438	0.024	0.024	0.000	0.000000
5	1447	1508	0.024	0.024	0.000	0.000000
6	1519	1540	0.024	0.023	0.001	0.000001
7	1552	1613	0.024	0.024	0.000	0.000000
8	1622	1643	0.024	0.024	0.000	0.000000
9	1653	1714	0.024	0.023	0.001	0.000001
			AVERAGE	AVERAGE	SUM OF DIFF.	SUM OF THE SQUARES
			0.024	0.024	0.002	0.000002

**MEAN DIFFERENCE, \bar{d} (Eq. A-7) 0.000222
 **STANDARD DEVIATION, S_d (Eq. A-8) 0.000441
 **CONFIDENCE COEFFICIENT, $|CC|$ (Eq. A-9) 0.000339

**PERCENT (%) RELATIVE ACCURACY, RA (Eq. A-10) 2.338

OR

***RELATIVE ACCURACY + or - 0.015 LB/MMBTU OF THE REFERENCE VALUE 0.000

**CALCULATED BIAS ADJUSTMENT FACTOR, BAF (Eq. A-12) 1.000

**APPLIED BIAS ADJUSTMENT FACTOR, BAF (LOW EMITTER) 1.000

** 40 CFR 75, Appendix A

*** 40 CFR 75, Appendix B, 2.3.1.2 (e & f)

FLORIDA POWER AND LIGHT COMPANY
 ENGINEERING AND TECHNICAL SERVICES
 700 UNIVERSE BLVD.
 JUNO BEACH, FLORIDA 33408

NOx LBS/MMBTU RELATIVE ACCURACY

PLANT: SANFORD
 UNIT: CT 4-A STACK
 LOAD: NORMAL - 158 MW
 DATE: 4/14/2003 169

ANALYZER: TECO 42-CLS
 SERIAL # 76011-381

RUN	TIME START	TIME END	REFERENCE METHOD (lb/mmBTU)	CEM RESPONSE (lb/mmBTU)	ARITHMATIC DIFFERENCE	DIFFERENCE SQUARED
1	1912	1933	0.024	0.023	0.001	0.000001
2	1939	2000	0.024	0.023	0.001	0.000001
3	2009	2030	0.024	0.023	0.001	0.000001
4	2041	2102	0.023	0.023	0.000	0.000000
5	2109	2130	0.023	0.023	0.000	0.000000
6	2138	2159	0.023	0.023	0.000	0.000000
7	2206	2227	0.023	0.023	0.000	0.000000
8	2235	2256	0.023	0.023	0.000	0.000000
9	2304	2325	0.023	0.023	0.000	0.000000
			AVERAGE	AVERAGE	SUM OF DIFF.	SUM OF THE SQUARES
			0.023	0.023	0.003	3E-06

**MEAN DIFFERENCE, \bar{d} (Eq. A-7) 0.000333
 **STANDARD DEVIATION, Sd (Eq. A-8) 0.000500
 **CONFIDENCE COEFFICIENT, |CC| (Eq. A-9) 0.000384

**PERCENT (%) RELATIVE ACCURACY, RA (Eq. A-10) 3.076

OR

***RELATIVE ACCURACY + or - 0.015 LB/MMBTU OF THE REFERENCE VALUE 0.000

**CALCULATED BIAS ADJUSTMENT FACTOR, BAF (Eq. A-12) 1.000

**APPLIED BIAS ADJUSTMENT FACTOR, BAF (LOW EMITTER) 1.000

** 40 CFR 75, Appendix A

*** 40 CFR 75, Appendix B, 2.3.1.2 (e & f)