

DRAFT

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-B STACK
 LOAD: NORMAL - 158 MW
 DATE: 6/1/2005

ANALYZER: TECO 42-CLS
 SERIAL # 76009-381

RUN	TIME START	TIME END	REFERENCE METHOD (lb/mmBTU)	CEM RESPONSE (lb/mmBTU)	ARITHMETIC DIFFERENCE	DIFFERENCE SQUARED
1	06:00	06:22	0.033	0.028	0.005	0.000025
2	06:24	06:46	0.032	0.026	0.006	0.000036
3	06:48	07:10	0.033	0.026	0.007	0.000049
4	07:20	07:42	0.031	0.026	0.005	0.000025
5	07:44	08:06	0.031	0.026	0.005	0.000025
6	08:08	08:30	0.032	0.026	0.006	0.000036
7	08:42	09:04	0.032	0.026	0.006	0.000036
8	09:06	09:28	0.031	0.026	0.005	0.000025
9	09:30	09:52	0.032	0.026	0.006	0.000036
			AVERAGE	AVERAGE	SUM OF DIFF.	SUM OF THE SQUARES
			0.032	0.026	0.051	0.000293

**MEAN DIFFERENCE, \bar{d} (Eq. A-7) 0.005667
 **STANDARD DEVIATION, Sd (Eq. A-8) 0.000707
 **CONFIDENCE COEFFICIENT, |CC| (Eq. A-9) 0.000544

**PERCENT (%) RELATIVE ACCURACY, RA (Eq. A-10) 19.474

OR

***RELATIVE ACCURACY + or - 0.015 LB/MMBTU OF THE REFERENCE VALUE 0.006

**CALCULATED BIAS ADJUSTMENT FACTOR, BAF (Eq. A-12) 1.216

**APPLIED BIAS ADJUSTMENT FACTOR, BAF (LOW EMITTER) 1.111

** 40 CFR 75, Appendix A

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

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FLORIDA POWER & LIGHT CO.
SANFORD CT-4B

LOAD: 160 MW
FUEL: 100 % GAS
DATE: 6/1/2005
RUN 1

AVG. ADJUSTED CO ppmvd @ 16% O2	1.48
CORRECTED O2	13.82
CORRECTED CO2	4.26
CORRECTED CO ppmvd	1.70

CALIBRATION ERROR, SYSTEM BIAS AND SYSTEM DRIFT DATA

SPAN SETTING	CAL GASES	TANK VALUE	ANALYZER DIFFERENCE			ANALYZER PRETEST		ANALYZER POSTTEST		% DRIFT	ANALYZER SERIAL #
			VALUE	PPM	% SPAN	VALUE	% SPAN	VALUE	% SPAN		
25	% O2	0.00	0.00	0.0	0.0	0.02	0.1	0.00	0.0	-0.1	01420B/701/856
		13.83	13.81	0.0	-0.1	13.80	0.0	13.80	0.0	0.0	
		22.38	22.40	0.0	0.1						
10	% CO2	0.00	0.00	0.0	0.0	0.00	0.0	0.04	0.4	0.4	01415c1245
		4.506	4.51	0.0	0.0	4.50	-0.1	4.50	-0.1	0.0	
		9.065	9.15	0.1	0.9						
10	PPM CO	0.00	0.00	0.0	0.0	0.01	0.1	0.00	0.0	-0.1	30091510951
		2.950	2.95	0.0	0.0	2.95	0.0	2.95	0.0	0.0	
		5.655	5.62	0.0	-0.4						

UNCORRECTED REFERENCE DATA

DATE / TIME	O2 %	CO2 %	CO PPM
6/1/2005 6:00	13.75	4.32	1.67
6/1/2005 6:02	13.71	4.34	1.71
6/1/2005 6:04	13.71	4.34	1.67
6/1/2005 6:06	13.72	4.34	1.74
6/1/2005 6:08	13.72	4.34	1.79
6/1/2005 6:10	13.72	4.34	1.80
6/1/2005 6:12	13.72	4.34	1.74
6/1/2005 6:14	13.72	4.33	1.72
6/1/2005 6:16	13.72	4.32	1.67
6/1/2005 6:18	13.72	4.30	2.45
6/1/2005 6:20	13.72	4.29	1.73
6/1/2005 6:22	13.72	4.28	1.81
6/1/2005 6:24	13.72	4.29	1.81
6/1/2005 6:26	13.74	4.28	1.98
6/1/2005 6:28	13.83	4.23	1.97
6/1/2005 6:30	13.84	4.22	1.91
6/1/2005 6:32	13.84	4.21	1.82
6/1/2005 6:34	13.84	4.20	1.87
6/1/2005 6:36	13.84	4.20	1.84
6/1/2005 6:38	13.84	4.21	1.72
6/1/2005 6:40	13.84	4.22	1.70
6/1/2005 6:42	13.84	4.22	1.74
6/1/2005 6:44	13.83	4.21	1.79
6/1/2005 6:46	13.84	4.20	1.88
6/1/2005 6:48	13.86	4.20	1.77
6/1/2005 6:50	13.86	4.20	1.67
6/1/2005 6:52	13.85	4.21	1.64
6/1/2005 6:54	13.84	4.22	1.65
6/1/2005 6:56	13.86	4.21	1.66
6/1/2005 6:58	13.86	4.21	1.64
6/1/2005 7:00	13.87	4.21	1.67

MEAN ANALYZER VALUES

% O2	13.79
% CO2	4.26
Avg. CO ppmvd	1.78