

DRAFT

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 5-A STACK
 LOAD: NORMAL - 155 MW
 DATE: 5/24/2005

ANALYZER: TECO 42-CLS
 SERIAL # 77996-387

RUN	TIME START	TIME END	REFERENCE METHOD (lb/mmBTU)	CEM RESPONSE (lb/mmBTU)	ARITHMETIC DIFFERENCE	DIFFERENCE SQUARED
1	06:30	06:52	0.033	0.028	0.005	0.000025
2	06:54	07:16	0.032	0.028	0.004	0.000016
3	07:18	07:40	0.032	0.027	0.005	0.000025
4	07:54	08:16	0.032	0.027	0.005	0.000025
5	08:18	08:40	0.032	0.027	0.005	0.000025
6	08:42	09:04	0.032	0.027	0.005	0.000025
7	09:20	09:42	0.032	0.027	0.005	0.000025
8	09:44	10:06	0.033	0.027	0.006	0.000036
9	10:08	10:30	0.033	0.027	0.006	0.000036
			AVERAGE	AVERAGE	SUM OF DIFF.	SUM OF THE SQUARES
			0.032	0.027	0.046	0.000238

**MEAN DIFFERENCE, \bar{d} (Eq. A-7)	0.005111
**STANDARD DEVIATION, S_d (Eq. A-8)	0.000601
**CONFIDENCE COEFFICIENT, $ CC $ (Eq. A-9)	0.000462
**PERCENT (%) RELATIVE ACCURACY, RA (Eq. A-10) OR	17.236
***RELATIVE ACCURACY + or - 0.015 LB/MMBTU OF THE REFERENCE VALUE	0.005
**CALCULATED BIAS ADJUSTMENT FACTOR, BAF (Eq. A-12)	1.188
**APPLIED BIAS ADJUSTMENT FACTOR, BAF (LOW EMITTER)	1.111

** 40 CFR 75, Appendix A, 7.6.5
 *** 40 CFR 75, Appendix B, 2.3.1.2 (e & f)

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FLORIDA POWER & LIGHT CO.
SANFORD CT-5A

LOAD: 157 MW
FUEL: 100 % GAS
DATE: 5/24/2005
RUN 1

AVG. ADJUSTED CO ppmvd @ 15% O2	1.47
CORRECTED O2	13.81
CORRECTED CO2	4.17
CORRECTED CO ppmvd	1.69

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	0.00	0.0	0.00	0.0	0.0	01420B/701/856
		13.83	13.80	0.0	-0.1	13.80	0.0	13.80	0.0	0.0	
10	% CO2	22.38	22.10	-0.3	-1.1	0.00	0.0	0.03	0.3	0.3	01415c1245
		0.00	0.00	0.0	0.0	4.50	0.0	4.50	0.0	0.0	
10	PPM CO	0.00	0.00	0.0	0.0	0.04	0.4	0.02	0.2	-0.2	30091510951
		2.950	2.94	0.0	-0.1	2.94	0.0	2.94	0.0	0.0	
		5.655	5.72	0.1	0.6						

UNCORRECTED REFERENCE DATA

DATE / TIME	O2 %	CO2 %	CO PPM
5/24/2005 6:30	13.79	4.17	1.64
5/24/2005 6:32	13.78	4.17	1.68
5/24/2005 6:34	13.79	4.17	1.67
5/24/2005 6:36	13.79	4.17	1.67
5/24/2005 6:38	13.79	4.17	1.67
5/24/2005 6:40	13.79	4.17	1.68
5/24/2005 6:42	13.79	4.17	1.71
5/24/2005 6:44	13.79	4.17	1.73
5/24/2005 6:46	13.79	4.17	1.72
5/24/2005 6:48	13.78	4.17	1.72
5/24/2005 6:50	13.78	4.17	1.73
5/24/2005 6:52	13.78	4.17	1.73
5/24/2005 6:54	13.78	4.17	1.74
5/24/2005 6:56	13.78	4.17	1.76
5/24/2005 6:58	13.78	4.17	1.73
5/24/2005 7:00	13.78	4.17	1.77
5/24/2005 7:02	13.78	4.17	1.79
5/24/2005 7:04	13.78	4.17	1.78
5/24/2005 7:06	13.78	4.17	1.79
5/24/2005 7:08	13.78	4.17	1.81
5/24/2005 7:10	13.78	4.17	1.84
5/24/2005 7:12	13.78	4.17	1.84
5/24/2005 7:14	13.78	4.18	1.84
5/24/2005 7:16	13.78	4.18	1.83
5/24/2005 7:18	13.78	4.17	1.87
5/24/2005 7:20	13.78	4.17	1.84
5/24/2005 7:22	13.78	4.17	1.84
5/24/2005 7:24	13.78	4.17	1.85
5/24/2005 7:26	13.78	4.17	1.86
5/24/2005 7:28	13.78	4.17	1.84
5/24/2005 7:30	13.78	4.17	1.81

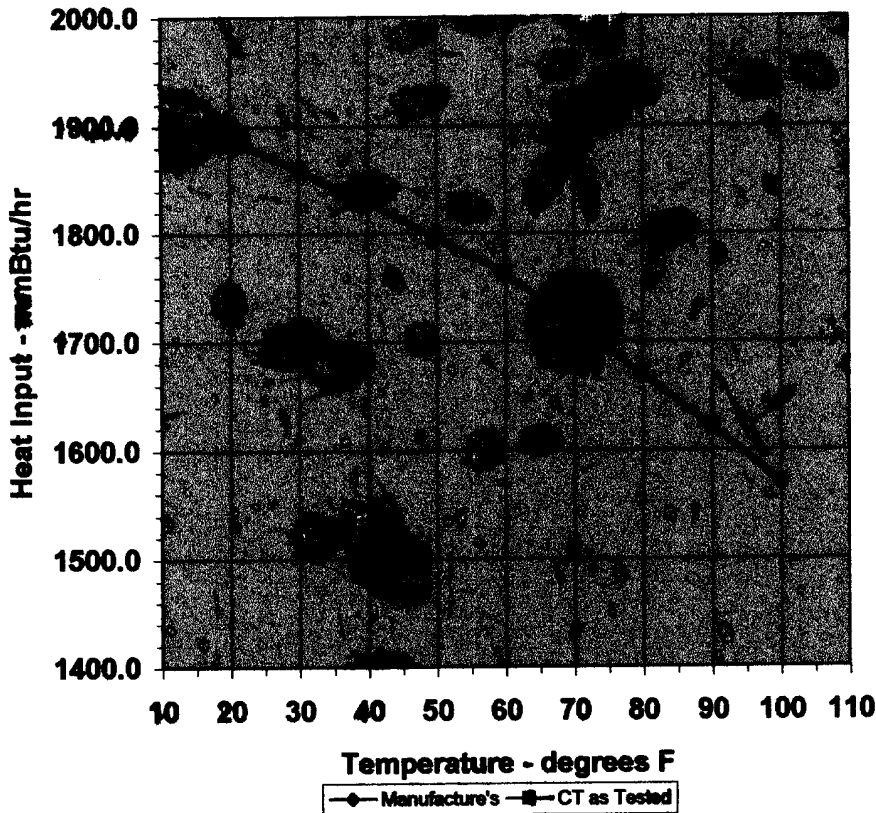
MEAN ANALYZER VALUES

% O2	13.78
% CO2	4.17
Avg. CO ppmvd	1.77

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UNIT: PSR 5A TEST DATE: 5-24-05

Sanford CT's - Heat Input vs. Ambient Temperature



Series 1 Data = Manufacture's specification
 Series 2 Data = CT as Tested

Base Load Data		
Temp.(F)	MF - H.I.	Test - H.I.
20	1887.4	1890.6
30	1856.9	1860.1
40	1827.3	1830.5
50	1794.5	1797.7
60	1761.0	1764.2
70	1715.1	1718.3
80	1687.7	1670.9
90	1619.6	1622.8
100	1568.1	1571.3

Actual Test Conditions	
Ambient temp. (F)	75
Heat Input for test	1700

Tested Capacity (%) 100.2

slope of line 5.15
 MF Heat Input at ambient temp. 1698.85
 Difference Test vs. MF -3.15