

DRAFT

FLORIDA POWER AND LIGHT CO.
SANFORD UNIT No. 4B

ANALYZER CALIBRATION SPAN

Test Date: 04/29/08

Run 1

ANALYZER RANGE	CALIBRATION GAS	CERTIFIED GAS VALUE	ANALYZER VALUE	DIFF PPM	% SPAN	ANALYZER SERIAL #
25	ppm NOx	0.00	0.00	0.0	0.0	951A01006309
	ppm NOx	12.50	12.50	0.0	0.0	
	ppm NOx	22.50	22.27	-0.2	-1.0	
25	% O2	0.00	0.00	0.0	0.0	01420B701856
	% O2	14.00	14.00	0.0	0.0	
	% O2	22.40	22.70	0.3	1.3	
10	% CO2	0.00	0.00	0.0	0.0	01415c/1245
	% CO2	4.56	4.50	-0.1	-0.6	
	% CO2	9.12	9.24	0.1	1.3	

SYSTEM BIAS AND SYSTEM DRIFT DATA

GAS UNITS	ANALYZER VALUE	PRETEST CHECK	% SPAN	POSTTEST CHECK	% SPAN	% DRIFT
ppm NOx	0.00	0.00	0.0	0.00	0.0	0.0
ppm NOx	12.50	12.50	0.0	12.50	0.0	0.0
% O2	0.00	0.00	0.0	0.00	0.0	0.0
% O2	14.00	14.00	0.0	14.00	0.0	0.0
% CO2	0.00	0.00	0.0	0.00	0.0	0.0
% CO2	4.50	4.50	0.0	4.50	0.0	0.0

UNCORRECTED REFERENCE DATA

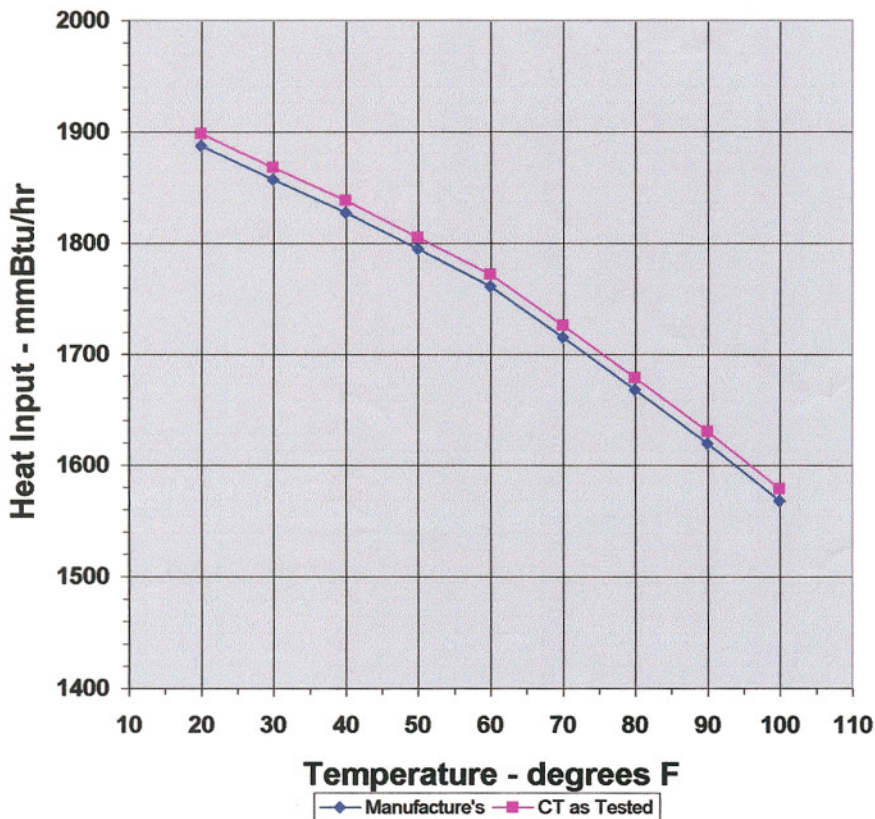
Date & Time	NOx PPM	% O2	% CO2
4/29/2008 8:50	9.89	13.89	3.97
4/29/2008 8:52	9.86	13.90	3.98
4/29/2008 8:54	9.78	13.91	3.99
4/29/2008 8:56	9.81	13.92	3.98
4/29/2008 8:58	9.89	13.92	3.98
4/29/2008 9:00	10.07	13.93	3.98
4/29/2008 9:02	10.31	13.93	3.99
4/29/2008 9:04	10.45	13.94	3.98
4/29/2008 9:06	10.72	13.93	3.99
4/29/2008 9:08	10.75	13.92	3.99
4/29/2008 9:10	10.86	13.93	3.99
4/29/2008 9:12	10.83	13.93	3.99

CORRECTED RESULTS	
NOx PPM	10.27
% O2	13.92
% CO2	4.04
NOx PPM @ 15% O2	8.68
LB/MMBTU NOx	0.032

AVERAGE 10.27 13.92 3.98

F Factor 8710

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	1867.5
30	1856.9	1837.0
40	1827.3	1807.4
50	1794.5	1774.6
60	1761.0	1741.1
70	1715.1	1695.2
80	1667.7	1647.8
90	1619.6	1599.7
100	1568.1	1548.2

Actual Test Conditions	
Ambient temp. (F)	72
Heat Input for test	1692

Tested Capacity (%) 98.8

slope of line 5.15
 MF Heat Input at ambient temp. 1712.3
 Difference Test vs. MF 19.91782