



May 29, 2003

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BUREAU OF AIR REGULATION Via Federal Express

Ms. Trina Vielhauer  
State of Florida  
Department of Environmental Protection  
Division of Air Resource Management  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

**Re: Emissions Performance Test Results  
Fort Myers Peaker Project Gas Heater**

Dear Trina:

The enclosed Emissions Performance Test Report is being submitted in accordance with Condition 25 of PSD FL-298 and 0710002-009-AC. Florida Power & Light Company (FPL) has completed the stack performance testing for Fort Myers Peaker Project Gas Heater. FPL will submit the testing report for Unit 3A when it becomes available.

Please feel free to contact me at (561) 691-7518 or Michael Szybinski at (561) 691-2898 if you have any questions.

Sincerely,

*Barbara P. Linkiewicz /scm*

Barbara P. Linkiewicz  
Sr. Environmental Specialist

Cc:

Errin Pichard	FDEP Division of Air Resource Management
Richard Cantrell	FDEP South District Office
Ron Blackburn	FDEP South District Office
Lynn Haynes	EPA Region 4
Brent Burger	OCI/Project Manager
Tom DePlonty	Project Manager
Bernie Tibble	Environmental Specialist - PFM
Bill Reichel	Plant General Manager - PFM
Nancy Kierspe	Designated Representative

**AIR PERMIT COMPLIANCE DEMONSTRATION  
FINAL REPORT**

*Performed At*  
**Florida Power and Light Company  
Fort Myers Power Plant  
Peaking Unit 3B – Gas Heater  
Fort Myers, Florida**

*Test Dates*  
**April 11, 2003**

*Report No.*  
**GE Mostardi Platt Report 20030171-03**

*Report Submittal Date*  
**May 16, 2003**

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**BUREAU OF AIR REGULATION**



GE Mostardi Platt  
1001 Aviation Parkway, Suite 100  
Morrisville, NC 27560  
Ph: 919-460-1060, Fax: 919-460-1944

**AIR PERMIT COMPLIANCE DEMONSTRATION  
FINAL REPORT**

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**Florida Power and Light Company  
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**CERTIFICATION SHEET**

Having reviewed the test program described in this report, I hereby certify the data, information, and results in this report to be accurate and true according to the methods and procedures used.

Data collected under the supervision of others is included in this report and is presumed to have been gathered in accordance with recognized standards.

GE MOSTARDI PLATT

*Michael O. White*

Michael O. White  
Regional Manager



**EMISSIONS COMPLIANCE TESTING**

Performed At  
**Fort Myers Power Plant**  
**Unit 3B – Gas Heater**  
**Fort Myers, Florida**  
**April 11, 2003**

**1.0 INTRODUCTION**

Emissions compliance testing was performed by GE MOSTARDI PLATT, a division of GE Energy and Industrial Services, Inc. (GE Mostardi Platt) on April 11, 2003, at the Fort Myers Power Plant in Fort Myers, Florida. The tests were authorized by and performed for Overland Contracting, Inc.

The purpose of this test program was to demonstrate compliance with the air permit number 0710002-009AC and PSD-FL-298 issued by the Florida Department of Environmental Protection (FL DEP).

**1.1 Project Contact Information**

Location	Address	Contact
Test Facility	Fort Myers Power Plant Fort Myers Simple Cycle Expansion Project Fort Myers, Florida	Bernard P. Tibble Florida Power and Light Company 239-693-4390
Testing Company Representative	GE Mostardi Platt 1001 Aviation Pkwy Suite 100 Morrisville, NC 27560	Michael White Regional Manager 919-460-1060 Phone mike2.white@ps.ge.com

The tests were conducted by John Maxwell and Kevin Dlabaja.

Messr. Sherrill Culliver of the Florida Department of Environmental Protection (FL DEP) observed the testing.



## 2.0 SUMMARY OF RESULTS

The following subsections provide a list of the pollutants tested at each emission source, the calculated averages, the applicable emission limits and the applicable rules or regulations for each emission limit. Completed summaries for testing at all loads are tabulated and can be found in Section 6 of this document.

All reported emission concentrations and emission rates were within the allowable levels cited in the air permit.

Testing was performed at one operating condition.

### Natural Gas Firing Summary of Results

Source	Pollutant Tested	Test Time (min per run)	Load %	Emission Limit	Measured Results	Permit Citation
Unit 3B Gas Heater	NOx	60	100	0.1 lb/MMBtu	0.040	#16a
	CO	60	100	0.075 lb/MMBtu	0.001	#19
	VE	60	100	10	0	#17



### 3.0 DISCUSSION OF RESULTS

No major problems were encountered with the testing equipment during the test program. The CO monitor values were below the minimum detection limit of the instrument. All monitor calibrations (initial and final) were within method data requirements. All data has been included in calculation of the reported averages.

Source operations appeared normal during the entire test program. Plant operating data as provided by the facility are included in the appendices to this document. Fuel factors were taken from EPA Reference Method 19.





### 4.0 TEST PROCEDURES

All testing, sampling, analytical, and calibration procedures used for this test program were performed as described in the Title 40, Code of Federal Regulations, Part 60, Appendix A (40CFR60). Methods 1-4, 5 and the latest revisions thereof. Where applicable, the Quality Assurance Handbook for Air Pollution Measurement Systems, Volume III, Stationary Source Specific Methods, United States Environmental Protection Agency (USEPA) 600/4-77-027b was used to determine the precise procedures.

The following table summarizes the monitoring procedures followed for the testing.

#### Manual Sampling and CEMS Instrument Specifications

Analyte	Method	Instrument/Principal	Range Specifications
NO <sub>x</sub>	EPA M20	TECO Model 42 C, Chemiluminescence	0-10, 0-100 ppm
O <sub>2</sub>	EPA M3A	Servomex 1400 Paramagnetic	0-25 percent
CO <sub>2</sub>	EPA M3A	ACS 3200 Infrared	0-20 percent
CO	EPA M10	TECO Model 48CTL NDIR/GFC	0-10, 0-50 ppm
Opacity	EPA M9	Visual observation by qualified observer	0 – 100%

The procedures for the measurements during this program were primarily instrumentation techniques using continuous emission monitors. GE Mostardi Platt's continuous emission monitoring system (CEMS) is housed inside a mobile laboratory in the back of an 18-foot trailer.

Sample gas extracted from the source being monitored was first cleaned and dried before analysis. The gas is conditioned by passing through a heated filter, a heat traced Teflon line into a condenser-style moisture removal system prior to analysis for NO<sub>x</sub>, CO<sub>2</sub>, O<sub>2</sub> and CO. The condition system cools the gas to 35 °F and thereby condenses out moisture in the sample. The system is operated with chilled condensers, which are continuously drained thereby minimizing the possibility of scrubbing target compounds. The monitoring rate is controlled through a series of valves and Dwyer rotometers. The flow rate is observed to ensure that an equal gas flow was being drawn from each sampling point.

Calibrations were performed with EPA Protocol 1 gases. Instrument span and the calibration gas concentrations were dependent on the fuel being fired.

Data handling from the analyzers includes output from the analyzer to be compiled on a microprocessor controlled data acquisition system. One-minute averages are recorded and translated to an EXCEL spreadsheet for further data reduction. All data was printed onsite and stored electronically in zip drives including at least one backup file.

The following subsections provide brief descriptions of the EPA Reference Method and any technical concerns encountered during the test program.



#### 4.1 Oxygen (O<sub>2</sub>)/Carbon Dioxide (CO<sub>2</sub>) Determination

Oxygen (O<sub>2</sub>) and carbon dioxide (CO<sub>2</sub>) gas contents were determined in accordance with Method 3A, 40CFR60.

A Servomex 1400 analyzer was used for the oxygen monitoring. Concentrations are detected using a paramagnetic principle. The analyzer evaluates the paramagnetic susceptibility of the sample gas using a magnetodynamic measuring cell. The response voltage is proportional to the oxygen concentration ratio.

An ACS 3200 analyzer was used for the carbon dioxide monitoring. This analyzer emits a single beam of infrared radiation at dual wavelengths. The beam passes through a sample cell and radiation at the specific wavelength is selectively absorbed by the carbon dioxide molecules. The intensity of radiation reaching the end of the sample cell is inversely proportional to the carbon dioxide concentration in the gas.

The carbon dioxide data is collected as an engineering check of the measured oxygen by calculating and applying F<sub>o</sub> factors using procedures identified in EPA Reference Method 3B, Section 12.3, Equation 3B-2 (also found in earlier format version at Section 3.4.1, Equation 3B-1).

GE Mostardi Platt followed the requirements of EPA Reference Method 3A, Determination of Oxygen and Carbon Dioxide Concentrations in Emissions from Stationary Sources.

#### 4.2 NO<sub>x</sub> by EPA Method 20

A TECO Model 42C analyzer was used to measure NO<sub>x</sub>. The operating principle of this instrument is a chemiluminescent reaction in which ozone reacts with nitric oxide to form oxygen and nitrogen dioxide. During the reaction a photon is emitted and measured by a photomultiplier tube. The instrument measures total oxides of nitrogen (nitrogen oxide and nitrogen dioxide) by thermally converting nitrogen dioxide to nitrogen oxide in a separate reaction chamber prior to the multiplier tube.

Measurements were performed in accordance to EPA Reference Method 7E, Determination of Nitrogen Oxides. Three runs were completed.

Quality control checks as identified in Method 7E were performed. These checks include response time checks, system calibrations and bias checks. Vendor data can be provided for interference response checks. GE Mostardi Platt calibrated at a range appropriate to the anticipated concentrations.



#### 4.3 CO by EPA Method 10

A TECO Model 48CTL trace analyzer was used for the CO monitoring. Concentrations are detected using a nondispersive infrared (NDIR) gas filter correlation technique. Radiation from the infrared source is chopped and then passed through a gas filter alternating between CO and nitrogen due to rotation of the filter wheel. The radiation then passes through an interference filter and enters a multiple optical pass cell where absorption by the sample gas occurs. The CO gas filter produces a reference beam that cannot be further attenuated by CO in the sample cell. At the same time, the nitrogen gas filter produces a measuring beam that can be absorbed by CO in the cell. The chopped detector signal is modulated by the alternation between the two gas filters. The sample amplitude is related to the concentration of CO in the sample cell.

GE Mostardi Platt followed the requirements of EPA Reference Method 10, Determination of Carbon Monoxide Emissions from Stationary Sources. Three runs were completed at the applicable load conditions concurrent with the NO<sub>x</sub> readings.

#### 4.4 Opacity by Method 9

The emissions from the stack were determined for opacity by a qualified observer during the testing when firing oil. Testing consisted of ten sets of 24 consecutive observations at 15-second intervals to yield a six-minute averages.

#### 4.6 Process Data

- Facility personnel were responsible for collection of all pertinent process data. Specific parameters recorded are maintained by the facility.



## 5.0 QUALITY ASSURANCE PROCEDURES

GE Mostardi Platt recognizes the previously described reference methods to be very technique oriented and attempts to minimize all factors that can increase error by implementing its Quality Assurance Program into every segment of its testing activities.

Calculations were performed by computer. An explanation of the nomenclature and calculations along with the complete test results are appended. Also appended are the calibration data and copies of the raw field data sheets.

Dry and wet test meters were calibrated according to methods described in the *Quality Assurance Handbook for Air Pollution Measurement Systems*, Sections 3.3.2, 3.4.2 and 3.5.2. Percent error for the wet test meter according to the methods was less than the allowable error of 1.0 percent. The dry test meters measured the test sample volumes to within 2 percent at the flowrate and conditions encountered during sampling.



6.0 TEST RESULTS SUMMARIES

6.1 CEMS Results

SUMMARY TABLE - CEMS PARAMETERS - UNIT 3B, GAS HEATER

<b>Test Identification</b>					
Test Period	--	1	1	1	Average
Test Condition	load level, %	100	100	100	
Sampling Location	--	stack	stack	stack	
Date		11-Apr-03	11-Apr-03	11-Apr-03	
Test Time (start-stop)		1146-1246	1313-1413	1434-1534	
<b>Exhaust Gas Conditions</b>					
Fuel Factor	dscf/MMBtu	8710	8710	8710	8710
O <sub>2</sub>	%	4.9	4.9	4.8	4.8
CO <sub>2</sub>	%	9.1	9.1	9.1	9.1
NO <sub>x</sub>	ppmvd	34.2	34.3	35.0	34.5
CO	ppmvd	0.10	0.10	0.10	0.1
<b>Exhaust Emissions</b>					
NO <sub>x</sub>	ppmvd @ 15% O <sub>2</sub>	12.6	12.6	12.8	12.7
NO <sub>x</sub>	lb/MMBtu	0.046	0.036	0.037	0.040
CO	ppmvd @ 15% O <sub>2</sub>	0.04	0.04	0.04	0.04
CO	lb/MMBtu	0.000083	0.000083	0.000082	0.000082



**CEMS Gas Firing - Base Load**

**PLANT:** Florida Power and Light      **RUN NUMBER:** 3B Ht-1      **CEM OPERATOR:** Jeff Dean  
**CITY, STATE:** Ft Myers Fl.      **RUN START TIME:** 11:46      **ENTERED BY:** Jeff Dean  
**LOCATION:** 3B Gas Turbine      **RUN END TIME:** 12:46      **CHECKED BY:** Michael White  
**START DATE:** 4/11/03  
**END DATE:** 4/11/03      **MAXIMUM RESPONSE TIME SEC.** 66

SPECIES		O2	CO2	NOx	CO
LOCATION		Stack	Stack	Stack	Stack
CONCENTRATION UNIT		% dry	% dry	ppmvd	ppmvd
HIGH-RANGE GAS FRACTION OF SPAN		0.90	0.90	0.80	0.88
SPAN		25	25	50	25
SPAN GAS CONCENTRATION, Cma	HIGH	22.46	22.44	40.00	22.00
	MID	12.00	12.00	20.00	12.00
	LO			10.00	7.00
	ZERO	0.0	0.0	0.00	0.0
INITIAL ANALYZER CALIBRATION CHECK, Cai	HIGH	22.40	22.40	39.80	21.90
	MID	12.00	12.10	19.40	11.70
	LO			9.40	6.87
	ZERO	0.04	0.00	0.20	0.00
RESPONSE TIME (SECONDS)		55	50	65	60
INITIAL ANALYZER CALIBRATION ERROR, Ei	HIGH	-0.2%	-0.2%	-0.4%	-0.4%
Ei = ((Cma - Cai)/Span)x100%	MID	0.0%	0.4%	-1.2%	-1.2%
	LO		N/A	-1.2%	-0.5%
	ZERO	0.2%	N/A	0.4%	N/A
INITIAL BIAS CHECK, Cbi	UPSCALE HIGH (H), MID (M), or LO (L)	M	M	M	L
(UPSCALE CALIBRATION GAS CLOSEST TO EFFLUENT GAS CONCENTRATION)	UPSCALE	11.80	11.90	19.40	6.96
	ZERO	0.00	0.00	0.20	0.00
INITIAL SYSTEM CALIBRATION BIAS, Bi	UPSCALE	-0.8%	-0.8%	0.0%	0.4%
Bi = ((Cbi - Cai)/Span)x100%	ZERO	-0.2%	0.0%	0.0%	0.0%
FINAL BIAS CHECK, Cbf	UPSCALE	11.80	11.90	19.30	6.95
(UPSCALE CALIBRATION GAS CLOSEST TO EFFLUENT GAS CONCENTRATION)	ZERO	0.00	0.00	0.20	0.00
FINAL SYSTEM CALIBRATION BIAS, Bf	UPSCALE	-0.8%	-0.4%	-1.4%	-0.2%
Bf = ((Cbf - Cai)/(Span))x100%	ZERO	-0.2%	0.0%	0.0%	0.0%
DRIFT CHECK, D	UPSCALE	0.0%	0.0%	-0.2%	0.0%
D = ((Cbf - Cbi)/(Span))x100%	ZERO	0.0%	0.0%	0.0%	0.0%
AVERAGE BIAS RESPONSE FOR ZERO GAS, Co		0.00	0.00	0.20	0.00
Co = (Cbi.zero + Cbf.zero)/2					
AVERAGE % BIAS	UPSCALE	-0.8%	-0.6%	-0.7%	0.1%
	ZERO	-0.2%	0.0%	0.0%	0.0%
AVERAGE BIAS RESPONSE FOR UPSCALE GAS, Cm		11.80	11.90	19.35	6.96
Cm = (Cbi.upscale + Cbf.upscale)/2					
AVERAGE ANALYZER RESPONSE FROM DAS, Cavg		4.87	9.05	34.15	-0.29



4/11/03  
Unit: Gas Heater

Run 1

Time	O2 %	CO2 %	NOX PPM	CO PPM
11:46	4.86	9.01	33.39	-0.24
11:47	4.84	9.03	33.93	-0.23
11:48	4.83	9.04	33.88	-0.25
11:49	4.88	9.02	33.92	-0.25
11:50	4.88	9.03	34.10	-0.24
11:51	4.87	9.03	33.84	-0.25
11:52	4.91	9.01	34.04	-0.23
11:53	4.88	9.03	33.85	-0.26
11:54	4.90	9.02	33.88	-0.25
11:55	4.90	9.03	34.07	-0.26
11:56	4.88	9.03	33.96	-0.25
11:57	4.91	9.02	34.15	-0.25
11:58	4.88	9.03	34.12	-0.24
11:59	5.13	8.88	33.87	-0.25
12:00	5.16	8.86	34.01	-0.26
12:01	5.11	8.90	33.77	-0.27
12:02	5.03	8.95	33.31	-0.28
12:03	4.79	9.10	33.41	-0.28
12:04	4.80	9.09	33.83	-0.28
12:05	4.77	9.11	34.52	-0.29
12:06	4.80	9.09	34.83	-0.29
12:07	4.73	9.14	34.68	-0.30
12:08	4.82	9.08	34.52	-0.29
12:09	4.78	9.11	34.53	-0.30
12:10	4.78	9.11	34.45	-0.28
12:11	4.79	9.10	34.81	-0.29
12:12	4.78	9.11	34.56	-0.30
12:13	4.85	9.07	34.45	-0.28
12:14	4.80	9.09	34.36	-0.31
12:15	4.85	9.07	34.20	-0.30
12:16	4.88	9.05	34.31	-0.29
12:17	4.82	9.08	34.23	-0.28
12:18	4.79	9.10	33.95	-0.31
12:19	4.80	9.10	34.44	-0.31
12:20	4.81	9.09	34.54	-0.29
12:21	4.81	9.09	34.46	-0.30
12:22	4.86	9.06	34.32	-0.30
12:23	4.87	9.05	34.41	-0.30
12:24	4.84	9.08	34.19	-0.30
12:25	4.83	9.08	34.10	-0.29
12:26	4.83	9.08	34.23	-0.32
12:27	4.82	9.08	34.13	-0.29
12:28	4.84	9.07	34.33	-0.29
12:29	4.85	9.07	34.20	-0.31
12:30	4.89	9.04	34.16	-0.32
12:31	4.84	9.07	34.08	-0.31
12:32	4.92	9.02	34.15	-0.31
12:33	4.92	9.02	33.99	-0.30
12:34	4.92	9.02	34.01	-0.31
12:35	4.89	9.04	34.00	-0.30
12:36	4.89	9.04	33.99	-0.30
12:37	4.88	9.05	34.23	-0.31
12:38	4.86	9.06	34.22	-0.32
12:39	4.88	9.05	34.15	-0.31
12:40	4.87	9.06	34.31	-0.31
12:41	4.89	9.04	34.20	-0.32
12:42	4.88	9.05	33.90	-0.29
12:43	4.85	9.06	33.87	-0.31
12:44	4.86	9.06	34.06	-0.30
12:45	4.89	9.04	34.43	-0.31
Average	4.87	9.05	34.15	-0.29

GE-Mostardi Platt

CALIBRATION ERROR, BIAS, DRIFT AND O2-CORRECTED CONCENTRATIONS

PLANT: Florida Power and Light	RUN NUMBER: 3B Ht-2	CEM OPERATOR: Jeff Dean
CITY, STATE: Ft Myers Fl.	RUN START TIME: 14:13	ENTERED BY: Jeff Dean
LOCATION: 3B Gas Turbine	RUN END TIME: 15:13	CHECKED BY: Michael White
START DATE: 4/11/03		
END DATE: 4/11/03	MAXIMUM RESPONSE TIME SEC. 66	

SPECIES		O2	CO2	NOx	CO
LOCATION		Stack	Stack	Stack	Stack
CONCENTRATION UNIT		% dry	% dry	ppmvd	ppmvd
HIGH-RANGE GAS FRACTION OF SPAN		0.90	0.90	0.80	0.88
SPAN		25	25	50	25
SPAN GAS CONCENTRATION, Cma	HIGH	22.46	22.44	40.00	22.00
	MID	12.00	12.00	20.00	12.00
	LO			10.00	7.00
	ZERO	0.0	0.0	0.00	0.0
INITIAL ANALYZER CALIBRATION CHECK, Cai	HIGH	22.40	22.40	39.80	21.90
	MID	12.00	12.10	19.40	11.70
	LO			9.40	6.87
	ZERO	0.04	0.00	0.20	0.00
RESPONSE TIME (SECONDS)		55	50	65	60
INITIAL ANALYZER CALIBRATION ERROR, Ei	HIGH	-0.2%	-0.2%	-0.4%	-0.4%
Ei = ((Cma - Cai)/Span)x100%	MID	0.0%	0.4%	-1.2%	-1.2%
	LO	N/A	N/A	-1.2%	-0.5%
	ZERO	0.2%	N/A	0.4%	N/A
INITIAL BIAS CHECK, Cbi	UPSCALE HIGH (H), MID (M), or LO (L)	M	M	M	L
(UPSCALE CALIBRATION GAS CLOSEST TO EFFLUENT GAS CONCENTRATION)	UPSCALE	11.80	11.90	19.30	6.95
	ZERO	0.00	0.00	0.20	0.00
INITIAL SYSTEM CALIBRATION BIAS, Bi	UPSCALE	-0.8%	-0.8%	-0.2%	0.3%
Bi = ((Cbi - Cai)/Span)x100%	ZERO	-0.2%	0.0%	0.0%	0.0%
FINAL BIAS CHECK, Cbf	UPSCALE	11.80	11.90	19.60	6.96
(UPSCALE CALIBRATION GAS CLOSEST TO EFFLUENT GAS CONCENTRATION)	ZERO	0.20	0.00	0.10	0.00
FINAL SYSTEM CALIBRATION BIAS, Bf	UPSCALE	-0.8%	-0.4%	-0.8%	-0.2%
Bf = ((Cbf - Cai)/(Span))x100%	ZERO	0.6%	0.0%	-0.2%	0.0%
DRIFT CHECK, D	UPSCALE	0.0%	0.0%	0.6%	0.0%
D = ((Cbf - Cbi)/(Span))x100%	ZERO	0.8%	0.0%	-0.2%	0.0%
AVERAGE BIAS RESPONSE FOR ZERO GAS, Co		0.10	0.00	0.15	0.00
Co = (Cbi.zero + Cbf.zero)/2					
AVERAGE % BIAS	UPSCALE	-0.8%	-0.6%	-0.5%	0.1%
	ZERO	0.2%	0.0%	-0.1%	0.0%
AVERAGE BIAS RESPONSE FOR UPSCALE GAS, Cm		11.80	11.90	19.45	6.96
Cm = (Cbi.upscale + Cbf.upscale)/2					
AVERAGE ANALYZER RESPONSE FROM DAS, Cavg		4.87	9.05	34.32	-0.34

4/11/03  
Unit: Gas Heater

Run 2

Time	O2 %	CO2 %	NOX PPM	CO PPM
13:13	5.03	8.92	32.98	-0.34
13:14	5.14	8.86	33.21	-0.31
13:15	5.14	8.86	33.77	-0.34
13:16	5.13	8.87	33.11	-0.32
13:17	5.03	8.94	33.21	-0.31
13:18	4.96	8.98	33.22	-0.33
13:19	4.93	9.00	33.56	-0.33
13:20	4.92	9.01	33.83	-0.32
13:21	4.88	9.04	33.94	-0.34
13:22	4.87	9.04	34.04	-0.32
13:23	4.82	9.07	34.08	-0.32
13:24	4.79	9.09	34.23	-0.33
13:25	4.81	9.09	34.24	-0.36
13:26	4.84	9.07	34.43	-0.36
13:27	4.83	9.07	34.38	-0.34
13:28	4.83	9.07	34.41	-0.34
13:29	4.79	9.09	34.37	-0.33
13:30	4.81	9.08	34.28	-0.33
13:31	4.86	9.05	34.30	-0.33
13:32	4.89	9.04	34.24	-0.34
13:33	4.92	9.02	34.11	-0.34
13:34	4.92	9.02	34.12	-0.31
13:35	4.90	9.03	33.99	-0.33
13:36	4.89	9.04	33.97	-0.33
13:37	4.84	9.07	33.94	-0.34
13:38	4.77	9.11	34.03	-0.34
13:39	4.77	9.11	34.35	-0.36
13:40	4.76	9.12	34.64	-0.35
13:41	4.79	9.10	34.49	-0.34
13:42	4.86	9.05	34.58	-0.33
13:43	4.88	9.05	34.49	-0.33
13:44	4.89	9.04	34.32	-0.35
13:45	4.89	9.04	34.28	-0.35
13:46	4.87	9.04	34.29	-0.33
13:47	4.88	9.05	34.31	-0.35
13:48	4.87	9.05	34.44	-0.37
13:49	4.84	9.07	34.37	-0.35
13:50	4.81	9.09	34.39	-0.34
13:51	4.81	9.09	34.36	-0.33
13:52	4.77	9.11	34.64	-0.34
13:53	4.78	9.11	34.70	-0.31
13:54	4.84	9.07	34.98	-0.35
13:55	4.86	9.06	34.92	-0.34
13:56	4.87	9.05	34.59	-0.36
13:57	4.89	9.04	34.59	-0.36
13:58	4.91	9.03	34.68	-0.33
13:59	4.90	9.04	34.58	-0.35
14:00	4.90	9.03	34.35	-0.36
14:01	4.91	9.03	34.59	-0.34
14:02	4.88	9.05	34.55	-0.33
14:03	4.84	9.07	34.58	-0.35
14:04	4.81	9.09	34.94	-0.35
14:05	4.83	9.08	34.74	-0.35
14:06	4.84	9.08	34.93	-0.35
14:07	4.84	9.08	34.87	-0.37
14:08	4.85	9.07	35.12	-0.35
14:09	4.85	9.07	35.15	-0.35
14:10	4.89	9.04	35.00	-0.34
14:11	4.87	9.05	34.71	-0.34
14:12	4.88	9.05	34.92	-0.34
Average	4.87	9.05	34.32	-0.34

PLANT: Florida Power and Light CITY, STATE: Ft Myers Fl. LOCATION: 3B Gas Turbine START DATE: 4/11/03 END DATE: 4/11/03		RUN NUMBER 3B Ht-3 RUN START TIME: 14:34 RUN END TIME: 15:34	CEM OPERATOR: Jeff Dean ENTERED BY: Jeff Dean CHECKED BY: Michael White		
		MAXIMUM RESPONSE TIME SEC. 62			
SPECIES		O2	CO2	NOx	CO
LOCATION		Stack	Stack	Stack	Stack
CONCENTRATION UNIT		% dry	% dry	ppmvd	ppmvd
HIGH-RANGE GAS FRACTION OF SPAN		0.90	0.90	0.80	0.88
SPAN		25	25	50	25
SPAN GAS CONCENTRATION, C <sub>ma</sub>	HIGH	22.46	22.44	40.00	22.00
	MID	12.00	12.00	20.00	12.00
	LO			10.00	7.00
	ZERO	0.0	0.0	0.00	0.0
INITIAL ANALYZER CALIBRATION CHECK, C <sub>ai</sub>	HIGH	22.40	22.40	39.80	21.90
	MID	12.00	12.10	19.40	11.70
	LO			9.40	6.87
	ZERO	0.04	0.00	0.20	0.00
RESPONSE TIME (SECONDS)		55	50	65	60
INITIAL ANALYZER CALIBRATION ERROR, E <sub>i</sub>	HIGH	-0.2%	-0.2%	-0.4%	-0.4%
E <sub>i</sub> = ((C <sub>ma</sub> - C <sub>ai</sub> )/Span)x100%	MID	0.0%	0.4%	-1.2%	-1.2%
	LO	N/A	N/A	-1.2%	-0.5%
	ZERO	0.2%	N/A	0.4%	N/A
INITIAL BIAS CHECK, C <sub>bi</sub>	UPSCALE HIGH (H), MID (M), or LO (L)	M	M	M	L
(UPSCALE CALIBRATION GAS CLOSEST TO EFFLUENT GAS CONCENTRATION)	UPSCALE	11.80	11.90	19.60	6.96
	ZERO	0.20	0.00	0.10	0.00
INITIAL SYSTEM CALIBRATION BIAS, B <sub>i</sub>	UPSCALE	-0.8%	-0.8%	0.4%	0.4%
B <sub>i</sub> = ((C <sub>bi</sub> - C <sub>ai</sub> )/Span)x100%	ZERO	0.6%	0.0%	-0.2%	0.0%
FINAL BIAS CHECK, C <sub>bf</sub>	UPSCALE	11.80	12.00	19.60	6.95
(UPSCALE CALIBRATION GAS CLOSEST TO EFFLUENT GAS CONCENTRATION)	ZERO	0.00	0.00	0.20	0.01
FINAL SYSTEM CALIBRATION BIAS, B <sub>f</sub>	UPSCALE	-0.8%	0.0%	-0.8%	-0.2%
B <sub>f</sub> = ((C <sub>bf</sub> - C <sub>ai</sub> )/Span)x100%	ZERO	-0.2%	0.0%	0.0%	0.0%
DRIFT CHECK, D	UPSCALE	0.0%	0.4%	0.0%	0.0%
D = ((C <sub>bf</sub> - C <sub>bi</sub> )/Span)x100%	ZERO	-0.8%	0.0%	0.2%	0.0%
AVERAGE BIAS RESPONSE FOR ZERO GAS, C <sub>o</sub>		0.10	0.00	0.15	0.01
C <sub>o</sub> = (C <sub>bi,zero</sub> + C <sub>bf,zero</sub> )/2					
AVERAGE % BIAS	UPSCALE	-0.8%	-0.4%	-0.2%	0.1%
	ZERO	0.2%	0.0%	-0.1%	0.0%
AVERAGE BIAS RESPONSE FOR UPSCALE GAS, C <sub>m</sub>		11.80	11.95	19.60	6.96
C <sub>m</sub> = (C <sub>bi,upscale</sub> + C <sub>bf,upscale</sub> )/2					
AVERAGE ANALYZER RESPONSE FROM DAS, C <sub>avg</sub>		4.83	9.07	34.96	-0.36

4/11/03  
Unit: Gas Heater

Run 3

Time	O2 %	CO2 %	NOX PPM	CO PPM
14:34	4.87	9.03	34.83	-0.34
14:35	4.86	9.04	34.86	-0.34
14:36	4.85	9.05	34.60	-0.37
14:37	4.82	9.07	34.78	-0.37
14:38	4.82	9.07	34.95	-0.35
14:39	4.80	9.09	35.23	-0.35
14:40	4.79	9.09	35.04	-0.37
14:41	4.84	9.06	35.00	-0.36
14:42	4.82	9.08	35.20	-0.34
14:43	4.84	9.07	35.02	-0.37
14:44	4.83	9.07	35.15	-0.35
14:45	4.83	9.07	35.13	-0.34
14:46	4.86	9.06	35.19	-0.35
14:47	4.86	9.06	35.14	-0.34
14:48	4.86	9.06	35.07	-0.37
14:49	4.88	9.04	34.98	-0.36
14:50	4.87	9.05	35.02	-0.36
14:51	4.84	9.07	35.13	-0.36
14:52	4.85	9.07	34.95	-0.37
14:53	4.86	9.06	35.01	-0.37
14:54	4.88	9.04	35.06	-0.36
14:55	4.86	9.05	34.79	-0.36
14:56	4.85	9.06	34.78	-0.34
14:57	4.86	9.05	34.82	-0.35
14:58	4.83	9.07	35.00	-0.37
14:59	4.81	9.08	34.93	-0.36
15:00	4.82	9.08	34.92	-0.38
15:01	4.80	9.09	35.01	-0.38
15:02	4.78	9.11	34.91	-0.38
15:03	4.79	9.09	35.11	-0.37
15:04	4.79	9.10	35.04	-0.37
15:05	4.79	9.10	35.12	-0.37
15:06	4.82	9.08	35.03	-0.37
15:07	4.85	9.06	35.15	-0.39
15:08	4.85	9.06	35.14	-0.36
15:09	4.83	9.07	34.94	-0.39
15:10	4.83	9.08	34.86	-0.36
15:11	4.82	9.08	34.93	-0.36
15:12	4.80	9.09	34.87	-0.36
15:13	4.81	9.08	34.98	-0.36
15:14	4.85	9.06	35.16	-0.36
15:15	4.87	9.05	35.01	-0.36
15:16	4.85	9.06	34.84	-0.35
15:17	4.84	9.07	34.80	-0.36
15:18	4.82	9.08	34.87	-0.34
15:19	4.80	9.09	34.76	-0.35
15:20	4.82	9.08	35.01	-0.37
15:21	4.82	9.08	34.94	-0.34
15:22	4.82	9.08	34.89	-0.37
15:23	4.81	9.08	34.81	-0.37
15:24	4.82	9.08	34.89	-0.35
15:25	4.84	9.07	35.10	-0.38
15:26	4.88	9.04	35.16	-0.37
15:27	4.85	9.06	34.76	-0.36
15:28	4.84	9.07	34.76	-0.34
15:29	4.83	9.07	34.79	-0.34
15:30	4.84	9.06	34.95	-0.33
15:31	4.82	9.07	34.99	-0.34
15:32	4.79	9.10	34.95	-0.37
15:33	4.80	9.09	34.67	-0.39
Average	4.83	9.07	34.96	-0.36

**Visible Emissions**

# CERTIFICATIONS

### GAS DIVIDER CERTIFICATION RESULTS

Reference: EPA 205  
 Location: DeBarry Fla.  
 Unit 3B  
 19-Mar-03

GAS TYPE	% Nox	RESPONSE 1	RESPONSE 2	RESPONSE 3	AVERAGE RESPONSE	DEVIATION A (%)	DEVIATION B (%)
UZAM Nitrogen	0.00	0.00	0.01	0.01	0.01	n/a	n/a
O2, Protocol I (bypass divider)	22.46	22.46	22.45	22.43	22.45	-0.06	0.07
O2, Protocol I	22.46	22.45	22.46	22.45	22.45	-0.03	0.03
Divided	18.00	18.00	18.02	18.03	18.02	0.09	0.09
Divided	12.00	12.00	12.00	12.00	12.00	0.00	0.00
Divided	6.00	5.97	5.98	5.97	5.97	-0.44	0.11
Divided	4.00	3.99	3.98	3.99	3.99	-0.33	0.17

Deviation A = (Average Response/Desired Concentration)\*100% (spec<=2%)

Deviation B = (Max deviation/Desired Concentration)\*100% (spec<=2%)



Thursday<sup>91</sup>  
3-27-03

1 97

Cal gasses

11:30 PM

Compound	Conc	Cyl #	
O <sub>2</sub> 100% Pnt	22.46% 22.56	ALM059720 AAL15653	234 334-3434 65391722
CO <sub>2</sub>	22.44%	ALM011442	MW Hotel conf
NO <sub>x</sub>	93.6 ppm	S99135167 BAL	M5 Points 1-5.2 16.5 29.0 43.5
CO	89.2 ppm	CC 97554	61.5 87.6
CH <sub>4</sub>	49.38 ppm	AAL14885	Nozzle 1213 = 0.242

Channel	Concentration	Ranges
00	100% N <sub>2</sub>	Gas
01	22.46% O <sub>2</sub>	O <sub>2</sub> 0-25%
02	12.00% O <sub>2</sub>	CO <sub>2</sub> 0-25%
03	22.44% CO <sub>2</sub>	NO <sub>x</sub> 0-20 ppm
04	22.00% CO <sub>2</sub>	CO 0-25 ppm
05	18.0 ppm NO <sub>x</sub>	THC 0-20 ppm
06	10.0 ppm NO <sub>x</sub>	
07	6.0 ppm NO <sub>x</sub>	
08	22.0 ppm CO	
09	12.0 ppm CO	
10	7.0 ppm CO	
11	18.0 ppm CH <sub>4</sub>	
12	10.0 ppm CH <sub>4</sub>	
13	7.0 ppm CH <sub>4</sub>	

The Tuners in Atlanta Need  
2 more Curves so we will do those  
and The O<sub>2</sub> Traverser today Base  
Load 3, 3hr Runs



CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory

SCOTT SPECIALTY GASES
1290 COMBERMERE STREET
TROY, MI 48083

P.O. No.: MO PLATT STOCK
Project No.: 05-86200-002

Customer

SCOTT SPECIALTY GASES C/C
MOSTARDI PLATT STOCK
868 SIVERT DRIVE
WOOD DALE IL 60191

ANALYTICAL INFORMATION

This certification was performed according to EPA Traceability Protocol For Assay & Certification of Gaseous Calibration Standards: Procedure #G1; September, 1997.

Cylinder Number: ALM059720 Certification Date: 12/17/01 Exp. Date: 12/16/2004
Cylinder Pressure\*\*\*: 1900 PSIG

Table with 4 columns: COMPONENT, CERTIFIED CONCENTRATION (Moles), ANALYTICAL ACCURACY\*\*, TRACEABILITY. Rows for OXYGEN and NITROGEN.

\*\*\* Do not use when cylinder pressure is below 150 psig.

\*\* Analytical accuracy is based on the requirements of EPA Protocol procedure G1, September 1997.

Product certified as +/- 1% analytical accuracy is directly traceable to NIST or NMI standards.

REFERENCE STANDARD

Table with 5 columns: TYPE/SRM NO., EXPIRATION DATE, CYLINDER NUMBER, CONCENTRATION, COMPONENT. Row for NTRM 2350.

INSTRUMENTATION

Table with 3 columns: INSTRUMENT/MODEL/SERIAL#, DATE LAST CALIBRATED, ANALYTICAL PRINCIPLE. Row for ROSEMOUNT/755R/1000430.

ANALYZER READINGS

(Z = Zero Gas R = Reference Gas T = Test Gas r = Correlation Coefficient)

First Triad Analysis Second Triad Analysis Calibration Curve

OXYGEN

Table with 3 columns: Date, Response Unit, and data points for Z1, R1, T1, Z2, R2, T2, Z3, R3, T3, Avg. Concentration.



Table with 2 columns: Concentration = A + Bx + Cx2 + Dx3 + Ex4 and Constants: A, B, C, D, E.

Special Notes: SEND CERT WITH CYLINDER

APPROVED BY: [Signature]



**CERTIFICATE OF ACCURACY: Interference Free <sup>TM</sup> EPA Protocol Gas**

Assay Laboratory

SCOTT SPECIALTY GASES  
1290 COMBERMERE STREET  
TROY, MI 48083

Customer

P.O. No.: MOSTARDI PLATT STOCK  
Project No.: 05-87766-005  
SCOTT SPECIALTY GASES C/C  
MOSTARDI PLATT STOCK  
868 SIVERT DRIVE  
WOOD DALE IL 60191

**ANALYTICAL INFORMATION**

This certification was performed according to EPA Traceability Protocol For Assay & Certification of Gaseous Calibration Standards; Procedure #G1; September, 1997.

Cylinder Number: ALM011442      Certification Date: 2/03/02      Exp. Date: 2/02/2005  
Cylinder Pressure\*\*\*: 1886 PSIG

<u>COMPONENT</u>	<u>CERTIFIED CONCENTRATION (Moles)</u>	<u>ANALYTICAL ACCURACY**</u>	<u>TRACEABILITY</u>
CARBON DIOXIDE	22.44 %	+/- 1%	Direct NIST and NMI
NITROGEN	BALANCE		

\*\*\* Do not use when cylinder pressure is below 150 psig.

\*\* Analytical accuracy is based on the requirements of EPA Protocol procedure G1, September 1997.

Product certified as +/- 1% analytical accuracy is directly traceable to NIST or NMI standards.

**REFERENCE STANDARD**

<u>TYPE/SRM NO.</u>	<u>EXPIRATION DATE</u>	<u>CYLINDER NUMBER</u>	<u>CONCENTRATION</u>	<u>COMPONENT</u>
NTRM 2300	1/01/04	ALM047465	23.34 %	CO2/N2

**INSTRUMENTATION**

<u>INSTRUMENT/MODEL/SERIAL#</u>	<u>DATE LAST CALIBRATED</u>	<u>ANALYTICAL PRINCIPLE</u>
FTIR System/8220/AA89300205	01/24/02	Scott Enhanced FTIR

**ANALYZER READINGS**

(Z = Zero Gas    R = Reference Gas    T = Test Gas    r = Correlation Coefficient)

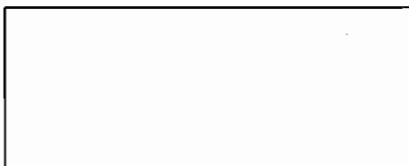
First Triad Analysis

Second Triad Analysis

Calibration Curve

**CARBON DIOXIDE**

Date:	Response Unit: %		
02/03/02	Z1 = 0.00380	R1 = 23.32435	T1 = 22.43159
	R2 = 23.34949	Z2 = 0.00910	T2 = 22.44253
	Z3 = 0.01550	T3 = 22.44588	R3 = 23.34614
Avg. Concentration:	22.44	%	



Concentration = A + Bx + Cx <sup>2</sup> + Dx <sup>3</sup> + Ex <sup>4</sup>	
r = 0.999990	
Constants:	A = 0.000000
B = 1.000000	C = 0.000000
D = 0.000000	E = 0.000000

APPROVED BY: \_\_\_\_\_

*Scott King*  
Scott King

Assay Laboratory  
 BOC GASES  
 600 Union Landing Road  
 Riverton, NJ 08077  
 (609) 829 7878

**CERTIFICATE OF ANALYSIS**  
**EPA Protocol Gas**

CUSTOMER  
 BOC RTP NC PLT  
 11 TRIANGLE DRIVE  
 RESEARCH TRI PK, NC 277090000

CYLINDER NO : CC97554  
 EXPIRATION DATE : 03/24/05  
 CERTIFICATION DATE : 04/01/02  
 CYLINDER PRESSURE : 2000 psig  
 PRODUCT ID NO : 02003794  
 LOT NUMBER : 492154

CUSTOMER PO NO:  
 Previous Certification Date(s):

**ANALYTICAL INFORMATION**

This calibration standard has been certified per the 1997 EPA Traceability Protocol, Document EPA-600/97/121, Using Procedure G1. All Values certified to be +/-1% NIST Traceable.

Do Not Use This Cylinder below 150 psig, i.e. 1.0 Megapascal

Components	Analytical Results			Assay Dates
	Requested Mixture	Certified Concentration	Analytical Uncertainty	
CARBON MONOXIDE	90.00 ppm	89.2 ppm	+/-1.00% NIST Traceable	03/25/02 & 04/01/02
NITROGEN	BALANCE GAS			

**CALIBRATION STANDARDS USED IN ASSAY**

Type	LOT ID	Cylinder No	Concentration	Expiration
NTRM 81679	98060827	CC10155	98.00 +/- 0.70 ppm CO/N2	05/01/02

**ANALYTICAL INSTRUMENTS USED IN ASSAY**

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Siemens 6E N1-L9-0191	NonDispersive Infrared	03/11/02

*Carroll*





# Scott Specialty Gases

1290 COMBERMERE STREET, TROY, MI 48083

## RATA CLASS

Dual-Analyzed Calibration Standard

Phone: 248-589-2950

Fax: 248-589-2134

### CERTIFICATE OF ACCURACY: EPA Protocol Gas

#### Assay Laboratory

SCOTT SPECIALTY GASES  
1290 COMBERMERE STREET  
TROY, MI 48083

P.O. No.: BLANKET  
Project No.: 05-01911-001

#### Customer

GE-MOSTARDI PLATT/MORRISVILLE  
1001 AVIATION PARKWAY  
SUITE 100  
MORRISVILLE NC 27560

#### ANALYTICAL INFORMATION

This certification was performed according to EPA Traceability Protocol For Assay & Certification of Gaseous Calibration Standards: Procedure G-1; September, 1997.

Cylinder Number: AAL14885      Certification Date: 04Mar2002      Exp. Date: 03Mar2005  
Cylinder Pressure\*\*\*: 1900 PSIG

COMPONENT	CERTIFIED CONCENTRATION (Moles)	ANALYTICAL ACCURACY**	TRACEABILITY
METHANE	49.38 PPM	+/- 1%	Direct NIST and NMI
AIR	BALANCE		

\*\*\* Do not use when cylinder pressure is below 150 psig.

\*\* Analytical accuracy is based on the requirements of EPA Protocol Procedure G1, September 1997.

Product certified as +/- 1% analytical accuracy is directly traceable to NIST or NMI standards.

#### REFERENCE STANDARD

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMPONENT
NTRM 2751	01Feb2003	AAL18705	100.2 PPM	METHANE

#### INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
VARIAN/1400/08982426	22Feb2002	FLAME IONIZATION

#### ANALYZER READINGS

(Z = Zero Gas    R = Reference Gas    T = Test Gas    r = Correlation Coefficient)

First Triad Analysis

Second Triad Analysis

Calibration Curve

#### METHANE

Date: 04Mar2002		Response Unit: HGHT	
Z1 = 0.00000	R1 = 51629.00	T1 = 25468.00	
R2 = 51655.00	Z2 = 0.00000	T2 = 25358.00	
T3 = 0.00000	T3 = 25374.00	R3 = 51786.00	
Avg. Concentration: 49.38		PPM	



Concentration = A + Bx + Cx <sup>2</sup> + Dx <sup>3</sup> + Ex <sup>4</sup>	
r = 0.999977	
Constants:	A = 0.0022311
B = 1.91E-03	C = 0.00
D = 0.00	E = 0.00

Special Notes:      STOCK#:      RATA330

APPROVED BY: \_\_\_\_\_

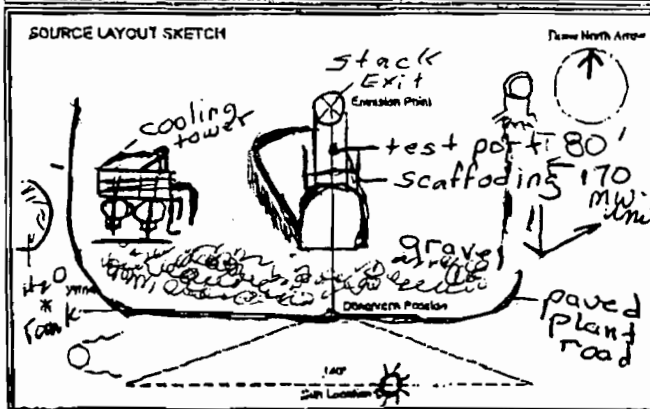
**Visible Emissions**

# Southern Environmental Sciences, Inc.

1204 North Wheeler Street □ Plant City, Florida 33563 □ (813) 752-5014, Fax (813) 752-2475

## VISIBLE EMISSIONS EVALUATION

COMPANY <b>FPL-Ft. Meyers</b>	
UNIT <b>Gas Heater for 3B</b>	
ADDRESS <b>10650 State Rd 80</b>	
<b>Near Tice, Lee County</b>	
PERMIT NO. <b>071002</b>	COMPLIANCE? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
AIR NO. <b>071002</b>	EU NO. <b>ASP-E1298</b>
PROCESS RATE <b>*</b>	PERMITTED RATE
PROCESS EQUIPMENT	
CONTROL EQUIPMENT	
OPERATING MODE <b>Continuous</b>	AMBIENT TEMP. (°F) START <b>69</b> STOP <b>70</b>
HEIGHT ABOVE GROUND LEVEL START <b>25'</b> STOP <b>25'</b>	HEIGHT RELATIVE TO OBSERVER START <b>25'</b> STOP <b>25'</b>
DISTANCE FROM OBSERVER START <b>75'</b> STOP <b>75'</b>	DIRECTION FROM OBSERVER START <b>N5°</b> STOP <b>N5°</b>
EMISSION COLOR <b>None</b>	PLUME TYPE CONTIN. <input type="checkbox"/> INTERMITTENT <input type="checkbox"/>
WATER DROPLETS PRESENT? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>	IS WATER DROPLET PLUME ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/>
POINT IN PLUME AT WHICH OPACITY WAS DETERMINED START <b>Stack exit</b> STOP <b>Stack exit</b>	
DESCRIBE BACKGROUND START <b>SKY</b> STOP <b>SKY</b>	
BACKGROUND COLOR START <b>White</b> STOP <b>White</b>	SKY CONDITIONS START <b>Overcast</b> STOP <b>same</b>
WIND SPEED (MPH) START <b>10-12</b> STOP <b>10-12</b>	WIND DIRECTION START <b>Variable</b> STOP <b>Swirling</b>
AVERAGE OPACITY FOR HIGHEST PERIOD <b>0%</b>	RANGE OF OPACITY READINGS MIN. <b>0</b> MAX. <b>0</b>



Comments **NO odors or emissions**  
**See process data**

OBSERVATION DATE		START TIME				STOP TIME			
<b>4/11/03</b>		<b>11:23</b>				<b>12:23</b>			
SEC	0	15	30	45	SEC	0	15	30	45
MIN	0	15	30	45	MIN	0	15	30	45
0	0	0	0	0	30	0	0	0	0
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0

OBSERVER: **Lynne Stevenson**

Certified by: **ETA** Certif. # **303794** Certified at: **Tampa, FL**

Date Certified: **2/19/03** Exp. Date: **8/19/03**

I certify that all data provided to the person conducting the test was true and correct to the best of my knowledge.

Signature: *[Signature]*

Title: **PROJ. SUP.**

# Southern Environmental Sciences, Inc.

1204 North Wheeler Street □ Plant City, Florida 33563 □ (813) 752-5014, Fax (813) 752-2475

## VISIBLE EMISSIONS EVALUATION

COMPANY <b>FPL - Ft. Meyers</b>	
UNIT <b>Gas Heater for 3B</b>	
ADDRESS <b>10650 State Rd 80</b>	
<b>near Tice, Lee County</b>	
PERMIT NO. <b>071002</b>	COMPLIANCE? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
MRS NO. <b>071002</b>	EU NO. <b>PSD-A1298</b>
PROCESS RATE	PERMITTED RATE
PROCESS EQUIPMENT	
CONTROL EQUIPMENT	
OPERATING MODE <b>continuous</b>	AMBIENT TEMP. °F START <b>70</b> STOP <b>70°</b>
HEIGHT ABOVE GROUND LEVEL START <b>25</b> STOP <b>25</b>	HEIGHT RELATIVE TO OBSERVER START <b>25</b> STOP <b>25</b>
DISTANCE FROM OBSERVER START <b>75'</b> STOP <b>75'</b>	DIRECTION FROM OBSERVER START <b>N 5°</b> STOP <b>N 5°</b>
EMISSION COLOR <b>none</b>	PLUME TYPE CONTIN. <input type="checkbox"/> INTERMITTENT <input type="checkbox"/>
WATER DROPLETS PRESENT? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>	IS WATER DROPLET PLUME ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/>
POINT IN PLUME AT WHICH OPACITY WAS DETERMINED START <b>stack Exit</b> STOP <b>SAME</b>	
DESCRIBE BACKGROUND START <b>sky</b> STOP <b>sky</b>	
BACKGROUND COLOR START <b>white</b> STOP <b>white</b>	SKY CONDITIONS START <b>overcast</b> STOP <b>same</b>
WIND SPEED (MPH) START <b>8-10</b> STOP <b>SAME</b>	WIND DIRECTION START <b>N &amp; W</b> STOP <b>swirling</b>
AVERAGE OPACITY FOR HIGHEST PERIOD <b>0%</b>	RANGE OF OPACITY READINGS MIN. <b>0</b> MAX. <b>0</b>
SOURCE LAYOUT SKETCH	
Comments <b>no odors or emissions</b> <b>see process statement</b>	

OBSERVATION DATE <b>4/11/03</b>					START TIME <b>12:25</b>					STOP TIME <b>13:25</b>				
SEC					SEC					SEC				
MIN	0	15	30	45	MIN	0	15	30	45	MIN	0	15	30	45
0	0	0	0	0	30	0	0	0	0					
1	0	0	0	0	31	0	0	0	0					
2	0	0	0	0	32	0	0	0	0					
3	0	0	0	0	33	0	0	0	0					
4	0	0	0	0	34	0	0	0	0					
5	0	0	0	0	35	0	0	0	0					
6	0	0	0	0	36	0	0	0	0					
7	0	0	0	0	37	0	0	0	0					
8	0	0	0	0	38	0	0	0	0					
9	0	0	0	0	39	0	0	0	0					
10	0	0	0	0	40	0	0	0	0					
11	0	0	0	0	41	0	0	0	0					
12	0	0	0	0	42	0	0	0	0					
13	0	0	0	0	43	0	0	0	0					
14	0	0	0	0	44	0	0	0	0					
15	0	0	0	0	45	0	0	0	0					
16	0	0	0	0	46	0	0	0	0					
17	0	0	0	0	47	0	0	0	0					
18	0	0	0	0	48	0	0	0	0					
19	0	0	0	0	49	0	0	0	0					
20	0	0	0	0	50	0	0	0	0					
21	0	0	0	0	51	0	0	0	0					
22	0	0	0	0	52	0	0	0	0					
23	0	0	0	0	53	0	0	0	0					
24	0	0	0	0	54	0	0	0	0					
25	0	0	0	0	55	0	0	0	0					
26	0	0	0	0	56	0	0	0	0					
27	0	0	0	0	57	0	0	0	0					
28	0	0	0	0	58	0	0	0	0					
29	0	0	0	0	59	0	0	0	0					
OBSERVER: <b>Janne Stevenson</b>														
Certified by: <b>ETA</b> Certif. # <b>303794</b> Certified at: <b>TPAFJ</b>														
Date Certified: <b>2/19/03</b> Exp. Date: <b>8/19/03</b>														
I certify that all data provided to the person conducting the test was true and correct to the best of my knowledge:														
Signature:														
Title: <b>PROJ SUP.</b>														

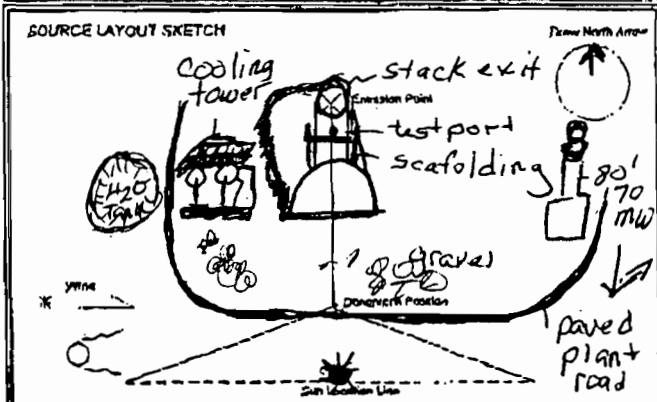


# Southern Environmental Sciences, Inc.

1204 North Wheeler Street □ Plant City, Florida 33563 □ (813) 752-5014, Fax (813) 752-2475

## VISIBLE EMISSIONS EVALUATION

COMPANY <b>FPL - Ft. Meyers</b>	
UNIT <b>Gas Heater for 3B</b>	
ADDRESS <b>10650 State Rd 80</b>	
<b>near Tice Lee County</b>	
PERMIT NO. <b>071002</b>	COMPLIANCE? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
AES NO. <b>071002</b>	EU NO. <b>psd-FI-298</b>
PROCESS RATE <b>X</b>	PERMITTED RATE
PROCESS EQUIPMENT	
CONTROL EQUIPMENT	
OPERATING MODE <b>Continuous</b>	AMBIENT TEMP. 1" F START <b>70</b> STOP <b>71</b>
HEIGHT ABOVE GROUND LEVEL START <b>25'</b> STOP <b>25'</b>	HEIGHT RELATIVE TO OBSERVER START STOP
DISTANCE FROM OBSERVER START <b>75'</b> STOP <b>75'</b>	DIRECTION FROM OBSERVER START <b>N 50°</b> STOP <b>N 50°</b>
EMISSION COLOR <b>none</b>	PLUME TYPE CONTIN. <input type="checkbox"/> INTERMITTENT <input type="checkbox"/>
WATER DROPLETS PRESENT? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>	IS WATER DROPLET PLUME ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/>
POINT IN PLUMES AT WHICH OPACITY WAS DETERMINED START <b>Stack exit</b> STOP <b>stack exit</b>	
DESCRIBE BACKGROUND START <b>sky</b> STOP <b>sky</b>	
BACKGROUND COLOR START <b>white or blue</b>	SKY CONDITIONS START <b>overcast</b>
WIND SPEED (MPH) START <b>5-7</b> STOP	WIND DIRECTION <b>Variable</b> START <b>NW</b> STOP <b>swirling</b>
AVERAGE OPACITY FOR HIGHEST PERIOD	RANGE OF OPACITY READINGS MIN. MAX.



Comments **no odors or emissions**  
**see process data**

OBSERVATION DATE		START TIME				STOP TIME			
<b>4/11/03</b>		<b>13:36</b>				<b>14:36</b>			
SEC					SEC				
	MIN	0	15	30		45	MIN	0	15
0	0	0	0	0	30	0	0	0	0
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0

OBSERVER **Lynne Stevenson**

Certified by: **ETA** Certif. # **303794** Certified at: **TPA, FL**

Date Certified: **2/19/03** Exp. Date: **8/19/03**

I certify that all data provided to the person conducting the test was true and correct to the best of my knowledge:

Signature: *[Signature]*

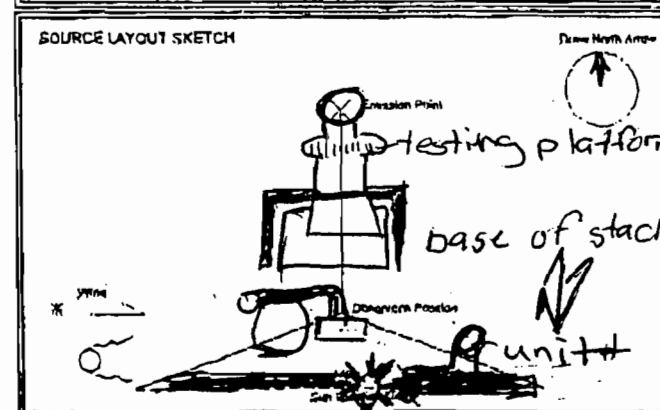
Title: **TPA SC?**

# Southern Environmental Sciences, Inc.

1204 North Wheeler Street □ Plant City, Florida 33563 □ (813) 752-5014, Fax (813) 752-2475

## VISIBLE EMISSIONS EVALUATION

COMPANY <b>FPL - Ft. Meyers Plant</b>	
UNIT <b>#3B</b>	
ADDRESS <b>10650 State Road 80</b> <b>near Tice, Lee Co</b>	
PERMIT NO. <b>0710002</b>	COMPLIANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
AIR NO. <b>0710002</b>	EU NO. <b>P50-F1298</b>
PROCESS RATE <b>Base Load</b>	PERMITTED RATE <b>Base Load</b>
PROCESS EQUIPMENT <b>170 megawatt GE M57274A</b>	
CONTROL EQUIPMENT <b>gas turbine / oil fired</b>	
OPERATING MODE <b>Continuous</b>	AMBIENT TEMP. (° F) START <b>68</b> STOP <b>68</b>
HEIGHT ABOVE GROUND LEVEL START <b>80</b> STOP <b>80</b>	HEIGHT RELATIVE TO OBSERVER START <b>80</b> STOP <b>80</b>
DISTANCE FROM OBSERVER START <b>80</b> STOP <b>80</b>	DIRECTION FROM OBSERVER START <b>N 10°</b> STOP <b>N 10°</b>
EMISSION COLOR <b>None</b>	PLUME TYPE CONTIN. <input type="checkbox"/> INTERMITTENT <input type="checkbox"/>
WATER DROPLETS PRESENT? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>	IS WATER DROPLET PLUME ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/>
POINT IN PLUME AT WHICH OPACITY WAS DETERMINED START <b>stack exit</b> STOP <b>stack</b>	
DESCRIBE BACKGROUND START <b>sky</b> STOP <b>sky</b>	
BACKGROUND COLOR <b>white</b> START <b>Blue</b> STOP <b>Blue</b>	SKY CONDITIONS START <b>scattered</b> STOP <b>same</b>
WIND SPEED (MPH) <b>25-</b> START <b>40</b> STOP <b>40</b>	WIND DIRECTION <b>SE</b> START <b>SW</b> STOP <b>SWSE</b>
AVERAGE OPACITY FOR HIGHEST PERIOD <b>0%</b>	RANGE OF OPACITY READINGS MIN. <b>0</b> MAX. <b>0</b>



Comments **x heat waves no odors**  
**D.E.P. was present & satisfied**  
**x see fuel analysis & process sheet**

OBSERVATION DATE		START TIME		STOP TIME						
4/10/03		12:20		13:20						
SEC					SEC					
	MIN	0	15	30		45	MIN	0	15	30
0	0	0	0	0	30	0	0	0	0	0
1	0	0	0	0	31	0	0	0	0	0
2	0	0	0	0	32	0	0	0	0	0
3	0	0	0	0	33	0	0	0	0	0
4	0	0	0	0	34	0	0	0	0	0
5	0	0	0	0	35	0	0	0	0	0
6	0	0	0	0	36	0	0	0	0	0
7	0	0	0	0	37	0	0	0	0	0
8	0	0	0	0	38	0	0	0	0	0
9	0	0	0	0	39	0	0	0	0	0
10	0	0	0	0	40	0	0	0	0	0
11	0	0	0	0	41	0	0	0	0	0
12	0	0	0	0	42	0	0	0	0	0
13	0	0	0	0	43	0	0	0	0	0
14	0	0	0	0	44	0	0	0	0	0
15	0	0	0	0	45	0	0	0	0	0
16	0	0	0	0	46	0	0	0	0	0
17	0	0	0	0	47	0	0	0	0	0
18	0	0	0	0	48	0	0	0	0	0
19	0	0	0	0	49	0	0	0	0	0
20	0	0	0	0	50	0	0	0	0	0
21	0	0	0	0	51	0	0	0	0	0
22	0	0	0	0	52	0	0	0	0	0
23	0	0	0	0	53	0	0	0	0	0
24	0	0	0	0	54	0	0	0	0	0
25	0	0	0	0	55	0	0	0	0	0
26	0	0	0	0	56	0	0	0	0	0
27	0	0	0	0	57	0	0	0	0	0
28	0	0	0	0	58	0	0	0	0	0
29	0	0	0	0	59	0	0	0	0	0

OBSERVER: **Janne Stevenson**  
 Certified by: **E.T.A. Certif. # 203794** Certified at: **Tampa**  
 Date Certified: **2/19/03** Exp. Date: **8/19/03**  
 I certify that all data provided to the person conducting the test was true and correct to the best of my knowledge.  
 Signature: \_\_\_\_\_  
 Title: **PROJECT SUP**

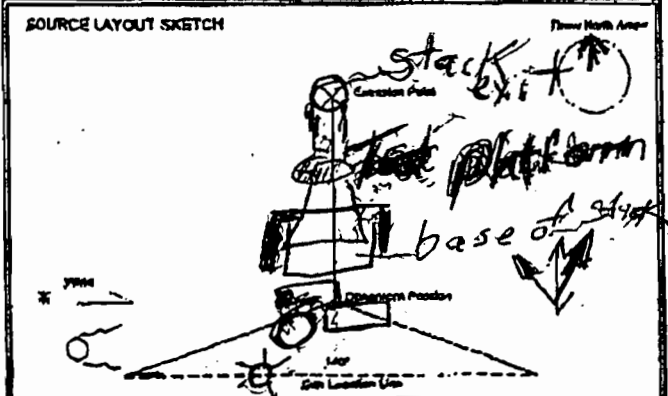
# Southern Environmental Sciences, Inc.

1204 North Wheeler Street □ Plant City, Florida 33563 □ (813) 752 5014, Fax (813) 752-2475

## VISIBLE EMISSIONS EVALUATION

COMPANY <i>FPL - FT. Meyers</i>	
UNIT # <i>3B</i>	
ADDRESS <i>10650 State Rd. 80</i> <i>near Tice Lee county</i>	
PERMIT NO. <i>0710002-009A</i>	COMPLIANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
WRS NO. <i>0710002</i>	EU NO. <i>PSD-FI-298</i>
PROCESS RATE <i>Base Load</i>	PERMITTED RATE <i>Base Load</i>
PROCESS EQUIPMENT <i>170 Megawatt GE M57214</i>	
CONTROL EQUIPMENT <i>gas turbine / fuel oil</i>	
OPERATING MODE <i>continuous</i>	AMBIENT TEMP. °F START <i>68</i> STOP <i>67</i>
HEIGHT ABOVE GROUND LEVEL START <i>80</i> STOP <i>80</i>	HEIGHT RELATIVE TO OBSERVER START <i>80</i> STOP <i>80</i>
DISTANCE FROM OBSERVER START <i>80</i> STOP <i>80</i>	DIRECTION FROM OBSERVER START <i>N10</i> STOP <i>N10</i>
EMISSION COLOR <i>none</i>	PLUME TYPE CONTIN. <input type="checkbox"/> INTERMITTENT <input type="checkbox"/>
WATER DROPLETS PRESENT? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>	IS WATER DROPLET PLUME ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/>
POINT IN PLUME AT WHICH OPACITY WAS DETERMINED START <i>stack exit</i> STOP <i>stack exit</i>	
DESCRIBE BACKGROUND START <i>blue white</i> STOP <i>sky</i>	
BACKGROUND COLOR START <i>blue</i> STOP <i>white</i>	SKY CONDITIONS START <i>scatter</i> STOP <i>same</i>
WIND SPEED (MPH) START <i>40</i> STOP <i>15</i>	WIND DIRECTION <i>swirling</i> START <i>sw</i> STOP <i>sw</i>
AVERAGE OPACITY FOR HIGHEST PERIOD <i>0%</i>	RANGE OF OPACITY READINGS MIN. <i>0</i> MAX. <i>0</i>

OBSERVATION DATE		START TIME		STOP TIME							
<i>4/10/03</i>		<i>14:50</i>		<i>15:50</i>							
SEC	MIN	0	15	30	45	SEC	MIN	0	15	30	45
0		0	0	0	0	30		0	0	0	0
1		0	0	0	0	31		0	0	0	0
2		0	0	0	0	32		0	0	0	0
3		0	0	0	0	33		0	0	0	0
4		0	0	0	0	34		0	0	0	0
5		0	0	0	0	35		0	0	0	0
6		0	0	0	0	36		0	0	0	0
7		0	0	0	0	37		0	0	0	0
8		0	0	0	0	38		0	0	0	0
9		0	0	0	0	39		0	0	0	0
10		0	0	0	0	40		0	0	0	0
11		0	0	0	0	41		0	0	0	0
12		0	0	0	0	42		0	0	0	0
13		0	0	0	0	43		0	0	0	0
14		0	0	0	0	44		0	0	0	0
15		0	0	0	0	45		0	0	0	0
16		0	0	0	0	46		0	0	0	0
17		0	0	0	0	47		0	0	0	0
18		0	0	0	0	48		0	0	0	0
19		0	0	0	0	49		0	0	0	0
20		0	0	0	0	50		0	0	0	0
21		0	0	0	0	51		0	0	0	0
22		0	0	0	0	52		0	0	0	0
23		0	0	0	0	53		0	0	0	0
24		0	0	0	0	54		0	0	0	0
25		0	0	0	0	55		0	0	0	0
26		0	0	0	0	56		0	0	0	0
27		0	0	0	0	57		0	0	0	0
28		0	0	0	0	58		0	0	0	0
29		0	0	0	0	59		0	0	0	0



Comments *x heat waves no odors or emissions*

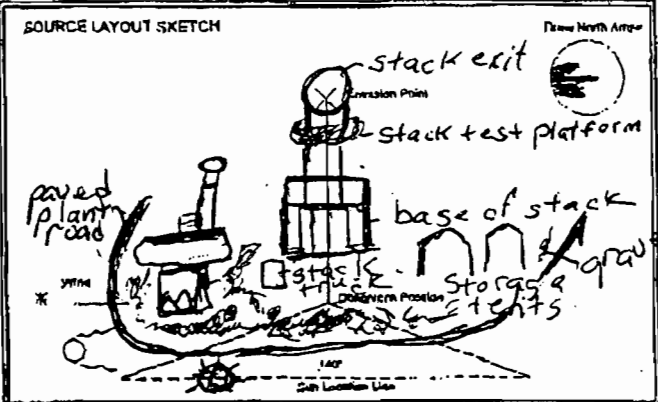
OBSERVER: *Janne Stevenson*  
 Certified by: *ETA Cardf. #503794* Certified at: *Tampa*  
 Date Certified: *2/19/03* Exp. Date: *8/19/03*  
 I certify that all data provided to the person conducting the test was true and correct to the best of my knowledge:  
 Signature: *[Signature]*  
 Title: *PROJ SGT.*

# Southern Environmental Sciences, Inc.

1204 North Wheeler Street □ Plant City, Florida 33563 □ (813) 752 5014, Fax (813) 752-2475

## VISIBLE EMISSIONS EVALUATION

COMPANY <i>FPL - H. Meyers</i>	
UNIT # <i>3B</i>	
ADDRESS <i>10650 State Rd. 80</i>	
<i>near Tice, Lee County</i>	
PERMIT NO. <i>0710002-009AC</i>	COMPLIANCE? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
AIRS NO. <i>0710002</i>	SLNO. <i>DSPD-FI-298X</i>
PROCESS RATE <i>Base Load X</i>	PERMITTED RATE <i>Base Load</i>
PROCESS EQUIPMENT <i>170 meg</i>	
CONTROL EQUIPMENT <i>gas turbine / fuel oil X</i>	
OPERATING MODE <i>CONTINUOUS</i>	AMBIENT TEMP. (°F) START <i>65</i> STOP <i>62</i>
HEIGHT ABOVE GROUND LEVEL START <i>80'</i> STOP <i>80'</i>	HEIGHT RELATIVE TO OBSERVER START <i>80'</i> STOP <i>80'</i>
DISTANCE FROM OBSERVER START <i>100'</i> STOP <i>100'</i>	DIRECTION FROM OBSERVER START <i>EAST</i> STOP <i>EAST</i>
EMISSION COLOR <i>heat waves</i>	PLUME TYPE CONTIN. <input type="checkbox"/> INTERMITTENT <input type="checkbox"/>
WATER DROPLETS PRESENT? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>	IS WATER DROPLET PLUME ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/>
POINT IN PLUME AT WHICH OPACITY WAS DETERMINED START <i>stack exit</i> STOP <i>stack exit</i>	
DESCRIBE BACKGROUND START <i>sky</i> STOP <i>sky</i>	
BACKGROUND COLOR START <i>Blue</i> STOP <i>Blue</i>	SKY CONDITIONS START <i>scattered</i> STOP <i>clear</i>
WIND SPEED (MPH) START <i>10</i> STOP <i>10</i>	WIND DIRECTION START <i>SW</i> STOP <i>SW</i>
AVERAGE OPACITY FOR HIGHEST PERIOD <i>0%</i>	RANGE OF OPACITY READINGS MIN. <i>0</i> MAX. <i>0</i>



Comments *no odors or emissions*  
*heat waves x see fuel analysis*  
*& process rate statement*

OBSERVATION DATE		START TIME				STOP TIME					
<i>4/10/03</i>		<i>18:35</i>				<i>18:35</i>					
SEC	MIN	0	15	30	45	SEC	MIN	0	15	30	45
0	30	0	0	0	0	30	0	0	0	0	0
1	31	0	0	0	0	31	0	0	0	0	0
2	32	0	0	0	0	32	0	0	0	0	0
3	33	0	0	0	0	33	0	0	0	0	0
4	34	0	0	0	0	34	0	0	0	0	0
5	35	0	0	0	0	35	0	0	0	0	0
6	36	0	0	0	0	36	0	0	0	0	0
7	37	0	0	0	0	37	0	0	0	0	0
8	38	0	0	0	0	38	0	0	0	0	0
9	39	0	0	0	0	39	0	0	0	0	0
10	40	0	0	0	0	40	0	0	0	0	0
11	41	0	0	0	0	41	0	0	0	0	0
12	42	0	0	0	0	42	0	0	0	0	0
13	43	0	0	0	0	43	0	0	0	0	0
14	44	0	0	0	0	44	0	0	0	0	0
15	45	0	0	0	0	45	0	0	0	0	0
16	46	0	0	0	0	46	0	0	0	0	0
17	47	0	0	0	0	47	0	0	0	0	0
18	48	0	0	0	0	48	0	0	0	0	0
19	49	0	0	0	0	49	0	0	0	0	0
20	50	0	0	0	0	50	0	0	0	0	0
21	51	0	0	0	0	51	0	0	0	0	0
22	52	0	0	0	0	52	0	0	0	0	0
23	53	0	0	0	0	53	0	0	0	0	0
24	54	0	0	0	0	54	0	0	0	0	0
25	55	0	0	0	0	55	0	0	0	0	0
26	56	0	0	0	0	56	0	0	0	0	0
27	57	0	0	0	0	57	0	0	0	0	0
28	58	0	0	0	0	58	0	0	0	0	0
29	59	0	0	0	0	59	0	0	0	0	0

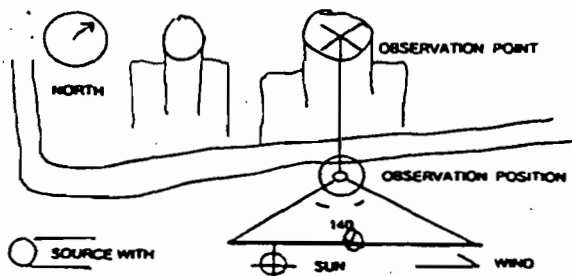
OBSERVER *Lynne Stevenson*  
 Certified by: *ETA* Calif. # *303794* Certified at: *Lampa*  
 Date Certified: *2/19/03* Exp. Date: *2/19/03*  
 I certify that all data provided to the person conducting the test was true and correct to the best of my knowledge:  
 Signature: \_\_\_\_\_  
 Title: *PROJ SUP*

		PAGE 1 OF 1									
		START TIME 1630					END TIME 1730				
		OBSERVATION DATE 3-28-03					TIME ZONE EST				
		SECMIN	0	15	30	45	SECMIN	0	15	30	45
FACILITY <i>FPL Ft. Myers</i>		1	0	0	0	0	31	0	0	0	0
SOURCE <i>Unit 3B</i>		2	0	0	0	0	32	0	0	0	0
ADDRESS		3	0	0	0	0	33	0	0	0	0
CITY <i>Ft. Myers</i> STATE-ZIP <i>FL</i>		4	0	0	0	0	34	0	0	0	0
PHONE SOURCE ID NO. <i>3B</i>		5	0	0	0	0	35	0	0	0	0
PROCESS <i>Simple cycle Gas Turbine</i> OPERATING MODE <i>Base</i>		6	0	0	0	0	36	0	0	0	0
CONTROL EQUIP. <i>DLN</i> OPERATING MODE		7	0	0	0	0	37	0	0	0	0
DESCRIBE EMISSION POINT		8	0	0	0	0	38	0	0	0	0
<i>Round Stack, Northern most of 2</i>		9	0	0	0	0	39	0	0	0	0
HEIGHT OF EMISSION POINT		10	0	0	0	0	40	0	0	0	0
START <i>~80'</i> END <i>"</i>		11	0	0	0	0	41	0	0	0	0
HEIGHT RELATIVE TO OBSERVER		12	0	0	0	0	42	0	0	0	0
START <i>~80'</i> END <i>"</i>		13	0	0	0	0	43	0	0	0	0
DISTANCE TO EMISSIONS POINT		14	0	0	0	0	44	0	0	0	0
START <i>~400'</i> END <i>"</i>		15	0	0	0	0	45	0	0	0	0
DIRECTION TO EM. PT.		16	0	0	0	0	46	0	0	0	0
START <i>60°</i> END <i>"</i>		17	0	0	0	0	47	0	0	0	0
VERTICAL ANGLE TO OBS. PT.		18	0	0	0	0	48	0	0	0	0
START <i>18°</i> END <i>"</i>		19	0	0	0	0	49	0	0	0	0
DESCRIBE EMISSIONS		20	0	0	0	0	50	0	0	0	0
START <i>Clear Heat Waves</i> END <i>"</i>		21	0	0	0	0	51	0	0	0	0
EMISSION COLOR		22	0	0	0	0	52	0	0	0	0
START <i>Clear</i> END <i>"</i>		23	0	0	0	0	53	0	0	0	0
WATER DROPLET PLUME YES/NO		24	0	0	0	0	54	0	0	0	0
ATTACHED DETACHED		25	0	0	0	0	55	0	0	0	0
DESCRIBE PLUME BACKGROUND		26	0	0	0	0	56	0	0	0	0
START <i>Sky</i> END <i>"</i>		27	0	0	0	0	57	0	0	0	0
BACKGROUND COLOR		28	0	0	0	0	58	0	0	0	0
START <i>Blue Gray</i> END <i>"</i>		29	0	0	0	0	59	0	0	0	0
SKY CONDITION		30	0	0	0	0	60	0	0	0	0
START <i>Scattered</i> END <i>"</i>											
WIND SPEED											
START <i>5 to 8 MPH</i> END <i>"</i>											
WIND DIRECTION											
START <i>W</i> END <i>"</i>											
AMBIENT TEMPERATURE											
START <i>87°F</i> END <i>86°F</i>											
WET BULB TEMP											
%RH											
COMMENTS.....											
<i>VE was done during run 3 Particulate Test.</i>											
<i>Pb 29.88</i>											
SOURCE LAYOUT SKETCH											
OBSERVER'S NAME (PRINT)		<i>Stephen C. Webb</i>									
SIGNATURE		<i>Stephen C. Webb</i>									
DATE		<i>3-28-03</i>									
ORGANIZATION		<i>Coastal Air Consulting, Inc.</i>									
CERTIFIED BY ETA ON		<i>ETA 2-13-03</i>									

		PAGE 1 OF 1									
		START TIME 1308					END TIME 1408				
		OBSERVATION DATE 3-28-03					TIME ZONE EST				
		SECMIN	0	15	30	45	SECMIN	0	15	30	45
FACILITY <i>FPL Ft. Myers Plant</i>		1	0	0	0	0	31	0	0	0	0
SOURCE <i>Unit 3B</i>		2	0	0	0	0	32	0	0	0	0
ADDRESS		3	0	0	0	0	33	0	0	0	0
CITY <i>Ft Myers</i> STATE-ZIP <i>FL</i>		4	0	0	0	0	34	0	0	0	0
PHONE SOURCE ID NO. <i>3B</i>		5	0	0	0	0	35	0	0	0	0
PROCESS <i>Simple Cycle Gas Turbine</i> OPERATING MODE <i>Base</i>		6	0	0	0	0	36	0	0	0	0
CONTROL EQUIP. <i>DLN</i> OPERATING MODE		7	0	0	0	0	37	0	0	0	0
DESCRIBE EMISSION POINT		8	0	0	0	0	38	0	0	0	0
<i>Round stack, northern most of two</i>		9	0	0	0	0	39	0	0	0	0
HEIGHT OF EMISSION POINT		10	0	0	0	0	40	0	0	0	0
START <i>~80</i> END <i>"</i>		11	0	0	0	0	41	0	0	0	0
HEIGHT RELATIVE TO OBSERVER		12	0	0	0	0	42	0	0	0	0
START <i>~80'</i> END <i>"</i>		13	0	0	0	0	43	0	0	0	0
DISTANCE TO EMISSIONS POINT		14	0	0	0	0	44	0	0	0	0
START <i>~400'</i> END <i>"</i>		15	0	0	0	0	45	0	0	0	0
DIRECTION TO EM. PT.		16	0	0	0	0	46	0	0	0	0
START <i>30°</i> END <i>30°</i>		17	0	0	0	0	47	0	0	0	0
VERTICAL ANGLE TO OBS. PT.		18	0	0	0	0	48	0	0	0	0
START <i>&lt;18°</i> END <i>"</i>		19	0	0	0	0	49	0	0	0	0
DESCRIBE EMISSIONS		20	0	0	0	0	50	0	0	0	0
START <i>Clear Heat Waves</i> END <i>"</i>		21	0	0	0	0	51	0	0	0	0
EMISSION COLOR		22	0	0	0	0	52	0	0	0	0
START <i>Clear</i> END <i>"</i>		23	0	0	0	0	53	0	0	0	0
WATER DROPLET PLUME YES <input checked="" type="checkbox"/> NO		24	0	0	0	0	54	0	0	0	0
ATTACHED DETACHED		25	0	0	0	0	55	0	0	0	0
DESCRIBE PLUME BACKGROUND		26	0	0	0	0	56	0	0	0	0
START <i>SKY</i> END <i>"</i>		27	0	0	0	0	57	0	0	0	0
BACKGROUND COLOR		28	0	0	0	0	58	0	0	0	0
START <i>Gray</i> END <i>"</i>		29	0	0	0	0	59	0	0	0	0
SKY CONDITION (50% to 90%)		30	0	0	0	0	60	0	0	0	0
START <i>Broken</i> END <i>"</i>											
WIND SPEED											
START <i>5-8 mph</i> END <i>5-8 mph</i>											
WIND DIRECTION											
START <i>NW</i> END <i>W</i>											
AMBIENT TEMPERATURE											
START <i>88°F</i> END <i>"</i>											
WET BULB TEMP											
-%RH											
COMMENTS.....											
<i>VE done during run 2 particulate</i>											
SOURCE LAYOUT SKETCH		<p><i>Stephen C. Webb</i></p> <p>OBSERVER'S NAME (PRINT)</p> <p><i>Stephen C. Webb</i> 3-28-03</p> <p>SIGNATURE DATE</p> <p><i>Coastal Air Consulting, Inc.</i></p> <p>ORGANIZATION</p> <p><i>ETA 2-13-03</i></p> <p>CERTIFIED BY ETA ON</p>									
<p>A hand-drawn sketch of the source layout. It shows a 'SOURCE WITH' (represented by a circle with a cross) and an 'OBSERVATION POINT' (represented by a circle with a cross). A 'GATE' is indicated between them. A 'WIND' direction is shown with an arrow pointing right. A 'SUN' is shown with a circle and rays. An 'OBSERVATION POSITION' is marked with a circle and a cross. A 'SECURITY' area is also indicated. A north arrow is present in the top left corner.</p>											

		PAGE 1 OF 1									
		START TIME 1037					END TIME 1137				
		OBSERVATION DATE 3-28-03					TIME ZONE EST				
		SEC:MIN	0	15	30	45	SEC:MIN	0	15	30	45
FACILITY <i>FP&amp;L Ft. Myers Plant</i>		1	0	0	0	0	31	0	0	0	0
SOURCE <i>Unit 3B</i>		2	0	0	0	0	32	0	0	0	0
ADDRESS		3	0	0	0	0	33	0	0	0	0
CITY <i>Ft. Myers</i> STATE-ZIP <i>FL</i>		4	0	0	0	0	34	0	0	0	0
PHONE SOURCE ID NO.		5	0	0	0	0	35	0	0	0	0
PROCESS <i>Simple cycle Gas Turbine</i> OPERATING MODE <i>Base</i>		6	0	0	0	0	36	0	0	0	0
CONTROL EQUIP. <i>DLN</i> OPERATING MODE		7	0	0	0	0	37	0	0	0	0
DESCRIBE EMISSION POINT		8	0	0	0	0	38	0	0	0	0
<i>Round Stack, Northern most of 2</i>		9	0	0	0	0	39	0	0	0	0
HEIGHT OF EMISSION POINT		10	0	0	0	0	40	0	0	0	0
START <i>~80'</i> END <i>"</i>		11	0	0	0	0	41	0	0	0	0
HEIGHT RELATIVE TO OBSERVER		12	0	0	0	0	42	0	0	0	0
START <i>~80'</i> END <i>"</i>		13	0	0	0	0	43	0	0	0	0
DISTANCE TO EMISSIONS POINT		14	0	0	0	0	44	0	0	0	0
START <i>~300'</i> END <i>"</i>		15	0	0	0	0	45	0	0	0	0
DIRECTION TO EM. PT.		16	0	0	0	0	46	0	0	0	0
START <i>278°</i> END <i>"</i>		17	0	0	0	0	47	0	0	0	0
VERTICAL ANGLE TO OBS. PT.		18	0	0	0	0	48	0	0	0	0
START <i>&lt;18°</i> END <i>"</i>		19	0	0	0	0	49	0	0	0	0
DESCRIBE EMISSIONS		20	0	0	0	0	50	0	0	0	0
START <i>Clear Heatwaves</i> END <i>"</i>		21	0	0	0	0	51	0	0	0	0
EMISSION COLOR		22	0	0	0	0	52	0	0	0	0
START <i>Clear</i> END <i>"</i>		23	0	0	0	0	53	0	0	0	0
WATER DROPLET PLUME YES <input checked="" type="checkbox"/> NO		24	0	0	0	0	54	0	0	0	0
ATTACHED DETACHED		25	0	0	0	0	55	0	0	0	0
DESCRIBE PLUME BACKGROUND		26	0	0	0	0	56	0	0	0	0
START <i>SKY</i> END <i>"</i>		27	0	0	0	0	57	0	0	0	0
BACKGROUND COLOR		28	0	0	0	0	58	0	0	0	0
START <i>Blue &amp; White</i> END <i>"</i>		29	0	0	0	0	59	0	0	0	0
SKY CONDITION		30	0	0	0	0	60	0	0	0	0
START <i>Scattered</i> END <i>"</i>											
WIND SPEED											
START <i>0-3 MPH</i> END <i>"</i>											
WIND DIRECTION											
START <i>Variable</i> END <i>"</i>											
AMBIENT TEMPERATURE											
START <i>82°F</i> END <i>"</i>											
WET BULB TEMP											
%											
COMMENTS.....											
<i>VE done during run   Particulate</i>											

SOURCE LAYOUT SKETCH



*Stephen C. Webb*

OBSERVER'S NAME (PRINT)

*Stephen C. Webb*

3-28-03

SIGNATURE

DATE

ORGANIZATION  
*EIA*

*Coastal Air Consulting, Inc.*  
2-13-03

CERTIFIED BY ETA ON

# VISIBLE EMISSIONS EVALUATOR

This is to certify that

*Steve Webb*

met the specifications of Federal Reference Method 9 and qualified as a visible emissions evaluator. Maximum deviation on white and black smoke did not exceed 7.5% opacity and no single error exceeding 15% opacity was incurred during the certification test conducted by Eastern Technical Associates of Raleigh, North Carolina. This certificate is valid for six months from date of issue.

303412

Certificate Number

Orlando, Florida

Location

February 13, 2003

Date of Issue

*Thomas Hore*

President

*Michael W. Jansford*

Director of Training