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SOURCE TEST REPORT
FOR
RELATIVE ACCURACY TEST AUDIT
OF THE
CONTINUOUS EMISSION MONITORING SYSTEM
COMBINED CYCLE EXHAUST STACK (3B)

COMBUSTION TURBINE CT-3 (EU003)
FIRING NATURAL GAS
CANE ISLAND POWER PARK

KISSIMMEE UTILITY AUTHORITY
KISSIMMEE, FLORIDA

FDEP PERMIT NUMBER 0970043/PSD-FL-254

JANUARY 11, 2002

PREPARED FOR:

KISSIMMEE UTILITY AUTHORITY
6075 OLD TAMPA HIGHWAY
INTERCESSION CITY, FLORIDA 33848

PREPARED BY:

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1.0 INTRODUCTION

On January 11, 2002, Air Consulting and Engineering, Inc. (ACE) performed an annual Relative Accuracy Test Audit (RATA) on the Oxides of Nitrogen (NO_x) Continuous Emission Monitoring System (CEMS) on the Combustion Turbine 3 Combined Cycle Exhaust Stack (3B) at the Kissimmee Electric Authority's facility in Intercession City, Florida.

Testing for NO_x, Oxygen (O₂), and Carbon Dioxide (CO₂) was performed using United States Environmental Protection Agency (EPA) Reference Methods (RM) 7E and 3A in accordance with The Code of Federal Regulations, Title 40, Parts 60 and 75.

Mr. Larry Mattern of Kissimmee coordinated the testing effort and provided production data. Mr. Garry Kuberski of the Florida Department of Environmental Protection (FDEP) observed a portion of the RATA.

2.0 SUMMARY AND DISCUSSION OF RESULTS

Results of the RATA are summarized in Table 1. The source demonstrated compliance with RATA conditions.

The CEMS of CT 3 Combined Cycle Exhaust (3B) demonstrated a relative accuracy of 6.16% with a bias adjustment factor (BAF) of 1.000. The source meets the RATA tolerance of $\pm 10\%$ relative accuracy. The source also qualifies as a "low emitter" with emissions less than or equal to 0.20 pounds per million BTU (lbs/MMBTU). As a low emitter, the source demonstrated a mean difference from the RM testing of 0.0001 lbs/MMBTU which is less than the 0.01 lbs/MMBTU difference necessary to qualify for annual RATA demonstration.

Complete emission data, data logger records and strip chart copies are presented in Appendices A and B respectively. The unit's CEM data is presented in Appendix D.

**TABLE 1 - NOx RATA RESULTS
 COMBUSTION TURBINE 3
 KISSIMMEE ELECTRIC AUTHORITY
 INTERCESSION CITY, FLORIDA
 1/11/02 GAS FIRING**

Fd = 8710

RELATIVE ACCURACY DETERMINATION(NOx/DILUENT)

RUN NO.	TIME BEGIN	TIME END	REFERENCE METHOD			NOx COMBINED SYSTEM(LB/MMbtu)		
			NOx PPM	O2 %	LB/MMbtu	RM	M	DIFF
1	8:14	8:35	4.13	13.64	0.012	0.012	0.012	0.000
2	8:50	9:11	4.21	13.67	0.013	0.013	0.012	0.001
3	9:22	9:43	3.83	13.66	0.012	0.012	0.011	0.001
4	9:55	10:16	3.81	13.65	0.011	0.011	0.012	-0.001
5	10:25	10:46	3.66	13.68	0.011	0.011	0.011	0.000
6	10:55	11:16	3.78	13.76	0.011	0.011	0.012	-0.001
7	11:25	11:46	3.77	13.77	0.012	0.012	0.011	0.001
8	11:55	12:16	3.71	13.73	0.011	0.011	0.011	0.000
9	12:25	12:46	3.73	13.73	0.011	0.011	0.011	0.000

"I" VALUE	2.306						
TOTAL DATA POINTS USED:				9			9
AVERAGE:	:	3.85	13.70	0.012	0.012	0.011	0.0001
AVERAGE DIFF. CORRECTED FOR DELETED RUNS:							0.0001
Sd:							0.0008
CC:							0.0006
RA:							6.16
BAF(BIAS ADJUSTMENT):							1.000

**PASSED WITH AVERAGE DIFFERENCE < 0.02 LB/MMBTU
 PASSED WITH RA <7.5%**

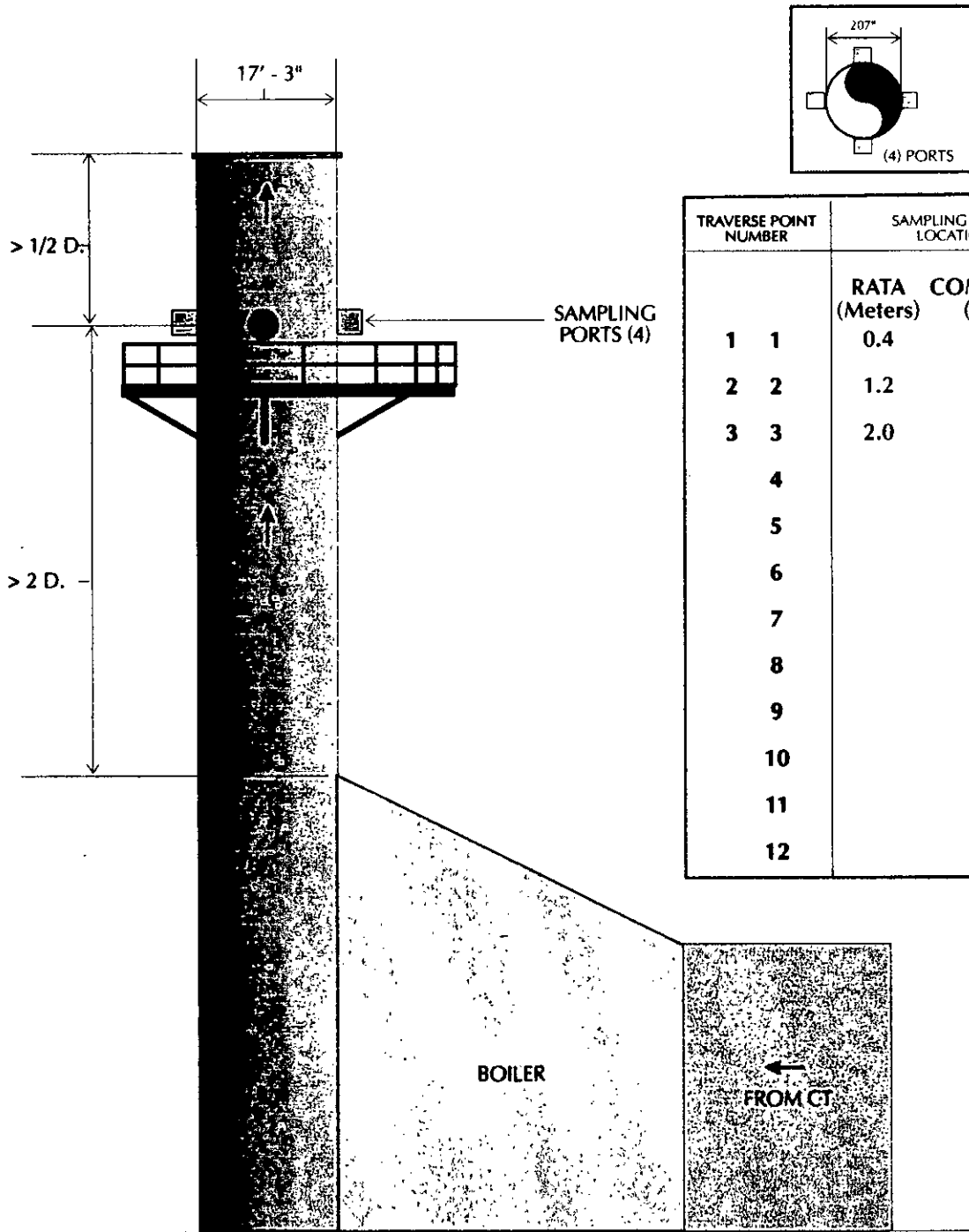
3.0 PROCESS DESCRIPTION AND OPERATION

The Combined Cycle Combustion Turbine – CT 3 - is rated at 250 MW and is fired on natural gas with fuel oil as backup. The system is equipped with dry low NO_x controls. The Combined Cycle Exhaust (3B) CEMS is a system that measures NO_x and O₂ on a dry basis using the oxygen based fuel factor (F_d) for natural gas to calculate emissions in lbs/MMBTU.

The Unit's CEMS data is provided in Appendix D.

4.0 SAMPLING POINT LOCATION

The sampling point locations and outlet duct schematic are provided in Figure 1. RATA testing was conducted using three sample points that represent 16.7%, 50%, and 83.3% of the stack diameter. Each sample point is sampled for seven minutes per 21-minute test run.



NOTE: NOT TO SCALE

SOURCE: AIR CONSULTING & ENGINEERING, INC. (ACE) 1/31/02

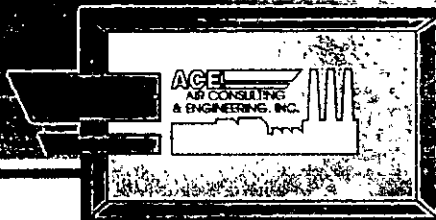
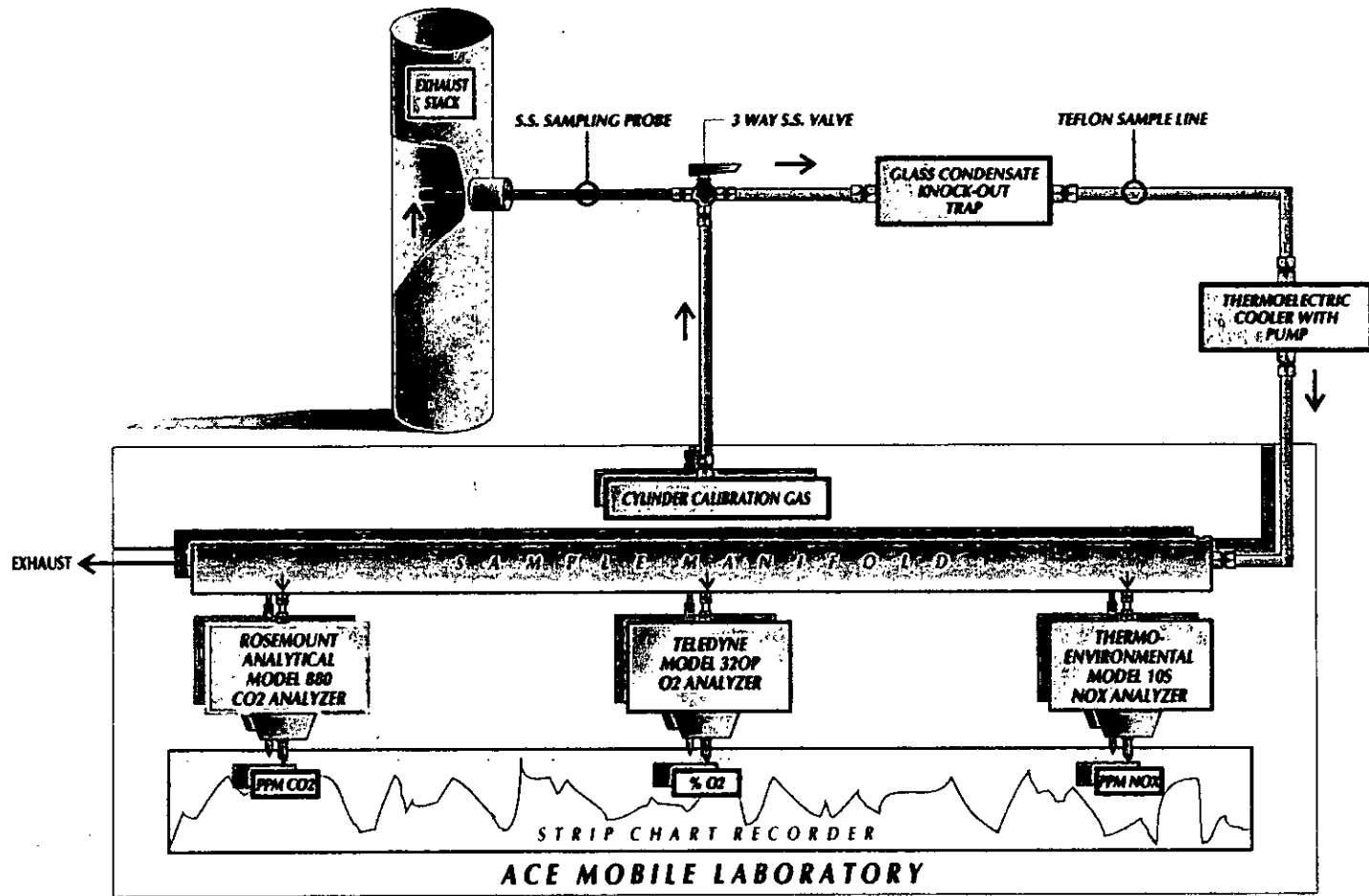


FIGURE 1.
SAMPLING POINT LOCATION
COMBUSTION TURBINE 3 COMBINED CYCLE EXHAUST
KISSIMMEE UTILITY COMMISSION
CANE ISLAND POWER PLANT

5.0 FIELD AND ANALYTICAL PROCEDURES

5.1 *Determination of Nitrogen Oxides, Oxygen, and Carbon Dioxide Emissions From Stationary Sources (Instrumental Analyzer Procedure)--EPA Method 7E and EPA Method 3A*

The sampling system is shown in Figure 2. A sample was drawn from the stack at a rate of approximately 20 CFM. A stainless steel probe and filter assembly was followed by a three-way stainless steel valve. The sample was pumped through a 3/8" O.D. TEFLON sampling line to a condensate trap housed in an ice bath. Calibration gases were introduced at the sampling interface (the three-way valve) through a 3/8" O.D. TEFLON line that was not heated. The sample pump delivered gases to a manifold system where one stream was sent to a Thermo Electron Model 10S Chemiluminescent Analyzer, converted to nitric oxide, reacted with ozone, and a chemiluminescent response measured by a photomultiplier. A second stream was delivered to a Rosemount 880A CO₂ analyzer. A third stream was delivered to a Teledyne 320P oxygen analyzer. A fourth stream was dumped to the ambient air. All instrument responses were recorded on a data logger. The sampling system yields NO_x, O₂, and CO₂ concentrations on a dry gas basis. All calibration gases were certified NBS traceable (see Appendix C).



SOURCE: AIR CONSULTING & ENGINEERING, INC. (BACONRTA) 2/20/71

ACE
AIR CONSULTING
& ENGINEERING, INC.

FIGURE 2.
EPA METHODS 3A AND 7E C.E.M. SAMPLING SCHEMATIC
(DETERMINATION OF CARBON DIOXIDE,
NITROGEN OXIDES, AND OXYGEN
EMISSIONS FROM STATIONARY SOURCES

APPENDIX A
COMPLETE EMISSION SUMMARY

NOx EMISSION SUMMARY
 COMBUSTION TURBINE 3
 KISSIMMEE ELECTRIC AUTHORITY
 INTERCESSION CITY, FLORIDA
 1/11/02

GAS FIRING

	1	2	3
RUN NUMBER:	1	2	3
START TIME:	8:14	8:50	9:22
END TIME:	8:35	9:11	9:43
DATA LOGGER NOx PPM:	4.18	4.27	3.88
DATA LOGGER O2%:	13.69	13.68	13.62
DATA LOGGER CO2%:	4.39	4.33	4.36
NOx INITIAL BIAS:	9.63	9.57	9.5
NOx FINAL BIAS:	9.57	9.5	9.48
NOx AVERAGE BIAS:	9.6	9.535	9.49
O2 INITIAL BIAS:	14.07	14.01	13.94
O2 FINAL BIAS:	14.01	13.94	13.95
O2 AVERAGE BIAS:	14.04	13.975	13.945
CO2 INITIAL BIAS:	3.7	3.7	NA
CO2 FINAL BIAS:	3.7	NA	NA
CO2 AVERAGE BIAS:	3.7	3.7	NA
NOx INITIAL ZERO:	-0.03	0.055	0.09
NOx FINAL ZERO:	0.055	0.09	0.09
NOx AVERAGE ZERO:	0.0125	0.0725	0.09
O2 INITIAL ZERO:	0.11	0.1	0.085
O2 FINAL ZERO:	0.1	0.085	0.08
O2 AVERAGE ZERO:	0.105	0.0925	0.0825
CO2 INITIAL ZERO:	-0.02	NA	NA
CO2 FINAL ZERO:	-0.02	NA	NA
CO2 AVERAGE ZERO:	-0.02	NA	NA
NOx CAL GAS VALUE:	9.5	9.5	9.5
O2 CAL GAS VALUE:	13.99	13.99	13.99
CO2 CAL GAS VALUE:	3.5	NA	NA
NOx CORRECTED AVERAGE:	4.13	4.21	3.83
O2 CORRECTED AVERAGE:	13.64	13.67	13.66
CO2 CORRECTED AVERAGE:	4.15	NA	NA
Fo:	1.75	NA	NA
FUEL FACTOR:	8710	8710	8710
NOx LB/MMBTU:	0.012	0.013	0.012
NOx PPM @ 15%:	3.38	3.44	3.12

**NOx EMISSION SUMMARY
 COMBUSTION TURBINE 3
 KISSIMMEE ELECTRIC AUTHORITY
 INTERCESSION CITY, FLORIDA
 1/11/02**

GAS FIRING

RUN NUMBER:	4	5	6
START TIME:	9:55	10:25	10:55
END TIME:	10:16	10:46	11:16
DATA LOGGER NOx PPM:	3.89	3.74	3.63
DATA LOGGER O2%:	13.62	13.68	13.80
DATA LOGGER CO2%:	4.36	4.35	4.25
NOx INITIAL BIAS:	9.48	9.59	9.47
NOx FINAL BIAS:	9.59	9.47	9.53
NOx AVERAGE BIAS:	9.535	9.53	9.5
O2 INITIAL BIAS:	13.95	13.96	14.02
O2 FINAL BIAS:	13.96	14.02	14.04
O2 AVERAGE BIAS:	13.955	13.99	14.03
CO2 INITIAL BIAS:	NA	NA	NA
CO2 FINAL BIAS:	NA	NA	NA
CO2 AVERAGE BIAS:	NA	NA	NA
NOx INITIAL ZERO:	0.09	0.12	0.09
NOx FINAL ZERO:	0.12	0.09	0.09
NOx AVERAGE ZERO:	0.105	0.105	0.09
O2 INITIAL ZERO:	0.08	0.07	0.07
O2 FINAL ZERO:	0.07	0.07	0.065
O2 AVERAGE ZERO:	0.075	0.07	0.0675
CO2 INITIAL ZERO:	NA	NA	NA
CO2 FINAL ZERO:	NA	NA	NA
CO2 AVERAGE ZERO:	NA	NA	NA
NOx CAL. GAS VALUE:	9.5	9.5	9.5
O2 CAL. GAS VALUE:	13.99	13.99	13.99
CO2 CAL GAS VALUE:	3.5	NA	NA
NOx CORRECTED AVERAGE:	3.81	3.66	3.78
O2 CORRECTED AVERAGE:	13.65	13.68	13.76
CO2 CORRECTED AVERAGE:	NA	NA	NA
Fo:	NA	NA	NA
FUEL FACTOR:	8710	8710	8710
NOx LB/MMBTU:	0.011	0.011	0.011
NOx PPM @ 15%:	3.10	2.99	3.12

NOx EMISSION SUMMARY
COMBUSTION TURBINE 3
KISSIMMEE ELECTRIC AUTHORITY
INTERCESSION CITY, FLORIDA
1/11/02

RUN NUMBER:	7	8	9
START TIME:	11:25	11:55	12:25
END TIME:	11:46	12:16	12:46
DATA LOGGER NOx PPM:	3.85	3.78	3.78
DATA LOGGER O2%:	13.77	13.68	13.68
DATA LOGGER CO2%:	4.11	4.02	3.93
NOx INITIAL BIAS:	9.53	9.58	9.53
NOx FINAL BIAS:	9.58	9.53	9.53
NOx AVERAGE BIAS:	9.555	9.555	9.53
O2 INITIAL BIAS:	14.04	13.94	13.93
O2 FINAL BIAS:	13.94	13.93	13.94
O2 AVERAGE BIAS:	13.99	13.935	13.935
CO2 INITIAL BIAS:	NA	NA	NA
CO2 FINAL BIAS:	NA	NA	NA
CO2 AVERAGE BIAS:	NA	NA	NA
NOx INITIAL ZERO:	0.09	0.09	0.08
NOx FINAL ZERO:	0.09	0.06	0.05
NOx AVERAGE ZERO:	0.09	0.075	0.055
O2 INITIAL ZERO:	0.065	0.07	0.07
O2 FINAL ZERO:	0.07	0.07	0.06
O2 AVERAGE ZERO:	0.0675	0.07	0.065
CO2 INITIAL ZERO:	NA	NA	NA
CO2 FINAL ZERO:	NA	NA	NA
CO2 AVERAGE ZERO:	NA	NA	NA
NOx CAL. GAS VALUE:	9.5	9.5	9.5
O2 CAL. GAS VALUE:	13.99	13.99	13.99
CO2 CAL GAS VALUE:	3.5	NA	NA
NOx CORRECTED AVERAGE:	3.77	3.71	3.73
O2 CORRECTED AVERAGE:	13.77	13.73	13.73
CO2 CORRECTED AVERAGE:	NA	NA	NA
Fa:	NA	NA	NA
FUEL FACTOR:	8710	8710	8710
NOx LB/MMBTU:	0.012	0.011	0.011
NOx PPM @ 15%:	3.12	3.06	3.07

APPENDIX B

**DATA LOGGER RECORDS AND
STRIP CHART COPIES**

CONTINUOUS MONITOR Q/A
 LINEARITY and DRIFT DATA
 COMBUSTION TURBINE 3
 KISSIMMEE ELECTRIC AUTHORITY INITIAL CALS
 INTERCESSION CITY, FLORIDA
 1/11/02

Date	Time	Channel 5-STACK O2% %	Channel 2-CO2% %	Channel 1-10s NOx PPM	
		Average	Average	Average	
1/11/02	7:29:09	1.15	0.04	18.87	18.5 NOx
1/11/02	7:29:24	1.12	0.04	18.79	
1/11/02	7:29:39	1.09	0.04	18.81	
1/11/02	7:29:54	1.06	0.04	18.78	
1/11/02	7:30:09	1.03	0.04	18.81	
1/11/02	7:30:24	1.23	0.04	18.8	18.80
1/11/02	7:30:39	8.44	0.04	18.63	
1/11/02	7:30:54	1.84	0.04	10.44	
1/11/02	7:31:09	1.05	0.04	5.66	5.27 NOx
1/11/02	7:31:24	0.92	0.04	4.99	
1/11/02	7:31:39	0.88	0.04	4.89	
1/11/02	7:31:54	0.86	0.04	4.87	
1/11/02	7:32:09	0.81	0.04	4.89	
1/11/02	7:32:24	4.98	0.03	4.87	4.88
1/11/02	7:32:39	1.36	0.04	7.88	
1/11/02	7:32:54	0.85	0.03	9.76	
1/11/02	7:33:09	0.74	0.03	9.98	
1/11/02	7:33:24	0.73	0.03	9.99	
1/11/02	7:33:39	0.69	0.03	9.99	
1/11/02	7:33:54	0.68	0.03	9.97	
1/11/02	7:34:09	0.67	0.03	9.97	
1/11/02	7:34:24	0.64	0.03	9.98	
1/11/02	7:34:39	0.64	0.03	9.98	
1/11/02	7:34:54	0.62	0.03	9.98	
1/11/02	7:35:09	0.61	0.03	9.99	
1/11/02	7:35:24	0.59	0.03	9.99	
1/11/02	7:35:39	0.58	0.03	10.01	
1/11/02	7:35:54	0.56	0.03	9.98	
1/11/02	7:36:09	0.55	0.03	9.97	
1/11/02	7:36:24	0.54	0.03	9.98	
1/11/02	7:36:39	0.52	0.03	9.98	
1/11/02	7:36:54	0.51	0.03	9.97	
1/11/02	7:37:09	0.5	0.03	9.97	
1/11/02	7:37:24	0.49	0.03	9.94	
1/11/02	7:37:39	0.47	0.03	9.95	
1/11/02	7:37:54	0.46	0.03	9.95	
1/11/02	7:38:09	0.45	0.03	9.98	
1/11/02	7:38:24	0.44	0.03	9.95	
1/11/02	7:38:39	0.43	0.03	9.97	
1/11/02	7:38:54	0.42	0.03	9.94	

1/11/02	7:39:09	0.41		0.03		9.93
1/11/02	7:39:24	0.25		0.03		9.95
1/11/02	7:39:39	0.02		0.03		9.95
1/11/02	7:39:54	0.02		0.02		9.94
1/11/02	7:40:09	1.4		0.02		9.93
01/11/02	7:40:24	11.67		0.02		9.92
1/11/02	7:40:39	1.15		0.02		9.93
1/11/02	7:40:54	0.46		0.02		9.95
1/11/02	7:41:09	0.26		0.02		9.93
1/11/02	7:41:24	0.17		0.02		9.94
1/11/02	7:41:39	0.13		0.02		9.94
1/11/02	7:41:54	0.11		0.02		9.91
1/11/02	7:42:09	0.1		0.02		9.9
1/11/02	7:42:24	0.09		0.02		9.93
1/11/02	7:42:39	0.08		0.02		9.94
1/11/02	7:42:54	0.07		0.02		9.9
1/11/02	7:43:09	0.07		0.02		9.9
1/11/02	7:43:24	0.07		0.02		9.9
1/11/02	7:43:39	0.57		0.02		9.89
1/11/02	7:43:54	9.31		0.07		6.8
1/11/02	7:44:09	17.39		0.11		1.54
1/11/02	7:44:24	19.45		0.12		0.48
1/11/02	7:44:39	19.9		0.12		0.31
1/11/02	7:44:54	20		0.13		0.27
1/11/02	7:45:09	20.02		0.13		0.24
1/11/02	7:45:24	20.02		0.12		0.22
1/11/02	7:45:39	20.02		0.13		0.21
1/11/02	7:45:54	20.73		0.13		0.2
1/11/02	7:46:09	20.92		0.12		0.18
1/11/02	7:46:24	21.17		0.13		0.18
1/11/02	7:46:39	21.03		0.13		0.17
1/11/02	7:46:54	21		0.12		0.16
1/11/02	7:47:09	20.99		0.12		0.16
1/11/02	7:47:24	20.93	20.9 O2	0.13		0.15
1/11/02	7:47:39	20.89		0.13		0.14
1/11/02	7:47:54	20.89		0.13		0.13
1/11/02	7:48:09	20.89		0.14		0.13
1/11/02	7:48:24	20.89		0.13		0.13
1/11/02	7:48:39	20.89	20.89	0.13		0.13
1/11/02	7:48:54	20.9		0.08		0.13
1/11/02	7:49:09	20.85		0.08		0.13
1/11/02	7:49:24	13.78		6.62		0.22
1/11/02	7:49:39	6.61		14.16		0.03
1/11/02	7:49:54	5.5		14.77		-0.04
1/11/02	7:50:09	5.32		14.77	15.1 CO2	-0.05
1/11/02	7:50:24	5.28	5.11 O2	14.72		-0.05
1/11/02	7:50:39	5.25		14.85		-0.06
1/11/02	7:50:54	5.25		15		-0.06
1/11/02	7:51:09	5.23		14.99		-0.06
1/11/02	7:51:24	5.24	5.24	14.97	14.99	-0.06

1/11/02	7:51:39	5.87		14.87		-0.06	
1/11/02	7:51:54	17.01		13.36		-0.06	
1/11/02	7:52:09	14.57		5.8		-0.04	
1/11/02	7:52:24	10.48		8.52		-0.05	
1/11/02	7:52:39	12.52	13.89 O2	5.4	3.5 CO2	-0.06	
01/11/02	7:52:54	13.4		4.37		-0.06	
1/11/02	7:53:09	13.87		3.92		-0.06	
1/11/02	7:53:24	14.02		3.76		-0.06	
1/11/02	7:53:39	14.05		3.73		-0.06	
1/11/02	7:53:54	14.06		3.71		-0.07	
1/11/02	7:54:09	14.06		3.7		-0.07	
1/11/02	7:54:24	14.06		3.7		-0.06	
1/11/02	7:54:39	14.07		3.7		-0.07	
1/11/02	7:54:54	14.07		3.7		-0.06	
1/11/02	7:55:09	14.07		3.7		-0.06	
1/11/02	7:55:24	14.07		3.7		-0.07	
1/11/02	7:55:39	14.07	14.07	3.7	3.7	-0.06	
1/11/02	7:55:54	14.08		3.7		-0.07	
1/11/02	7:56:09	14.13		3.69		-0.06	
1/11/02	7:56:24	15.06		3.14		-0.06	
1/11/02	7:56:39	14.24	13.99 O2	0.61		-0.07	
1/11/02	7:56:54	14.17		0.04		-0.07	
1/11/02	7:57:09	14.14		-0.02		-0.06	
1/11/02	7:57:24	14.14		-0.03		-0.06	
1/11/02	7:57:39	14.14		-0.03		-0.06	
1/11/02	7:57:54	14.14		-0.03		-0.07	
1/11/02	7:58:09	14.14	14.14	-0.03		-0.07	
1/11/02	7:58:24	14.13		-0.03		-0.07	
1/11/02	7:58:39	14.13		-0.04		-0.06	
1/11/02	7:58:54	14.45		-0.04		-0.07	
1/11/02	7:59:09	16.05		-0.01		-0.05	
1/11/02	7:59:24	19.52		0.06		0.01	
1/11/02	7:59:39	20.68		0.07		0.04	
1/11/02	7:59:54	20.89		0.08		0.06	
1/11/02	8:00:09	20.93		0.08		0.06	
1/11/02	8:00:24	20.93		0.08		0.06	
1/11/02	8:00:39	20.93		0.08		0.06	
1/11/02	8:00:54	20.92		0.08		0.06	
1/11/02	8:01:09	20.52		0.08		0.11	
1/11/02	8:01:24	13.53		0.04		3.22	
1/11/02	8:01:39	4.92		-0.01		7.47	
1/11/02	8:01:54	1.54		-0.02		9.06	
1/11/02	8:02:09	0.53	ZERO O2	-0.02	ZERO CO2	9.45	9.5 NOx
1/11/02	8:02:24	0.26	BIAS	-0.02	BIAS	9.55	BIAS
1/11/02	8:02:39	0.18		-0.02		9.62	
1/11/02	8:02:54	0.14		-0.02		9.64	
1/11/02	8:03:09	0.12		-0.02		9.63	
1/11/02	8:03:24	0.11		-0.02		9.62	
1/11/02	8:03:39	0.11		-0.02		9.64	
1/11/02	8:03:54	0.11	0.11	-0.03	-0.02	9.63	9.63

1/11/02	8:04:09	0.12		-0.02	9.66	
1/11/02	8:04:24	3.61		-0.01	8.25	
1/11/02	8:04:39	10.28		-0.01	3.67	
1/11/02	8:04:54	12.92	13.99 O2	-0.02	0.88	
1/11/02	8:05:09	13.73	BIAS	-0.02	0.23	
01/11/02	8:05:24	13.94		-0.02	0.06	
1/11/02	8:05:39	14.02		-0.02	0.01	
1/11/02	8:05:54	14.04		-0.02	-0.01	NOx
1/11/02	8:06:09	14.05		-0.02	-0.02	ZERO
1/11/02	8:06:24	14.06		-0.02	-0.02	BIAS
1/11/02	8:06:39	14.06		-0.02	-0.03	
1/11/02	8:06:54	14.07		-0.02	-0.03	
1/11/02	8:07:09	14.07		-0.03	-0.03	
1/11/02	8:07:24	14.07		-0.03	-0.03	
1/11/02	8:07:39	14.07	14.07	-0.02	-0.04	-0.03
1/11/02	8:07:54	14.07		-0.02	-0.04	
1/11/02	8:08:09	14.33		-0.02	-0.04	
1/11/02	8:08:24	17.04	RESPONSE	0.02	0.01	
1/11/02	8:08:39	19.59	TIME	0.05	0.17	
1/11/02	8:08:54	20.54		0.06	0.22	
1/11/02	8:09:09	19.51	START	0.93	0.59	
1/11/02	8:09:24	15.71		3.44	2.86	
1/11/02	8:09:39	14.19	60 SEC.	4.21	3.98	
1/11/02	8:09:54	13.88		4.33	4.13	
1/11/02	8:10:09	13.8		4.35	4.18	
1/11/02	8:10:24	13.78	STOP	4.36	4.18	

EMISSION SUMMARY
COMBUSTION TURBINE 3
KISSIMMEE ELECTRIC AUTHORITY
INTERCESSION CITY, FLORIDA
1/11/02
GAS FIRING

DATA LOGGER SUMMARIES
RUN 1 GAS

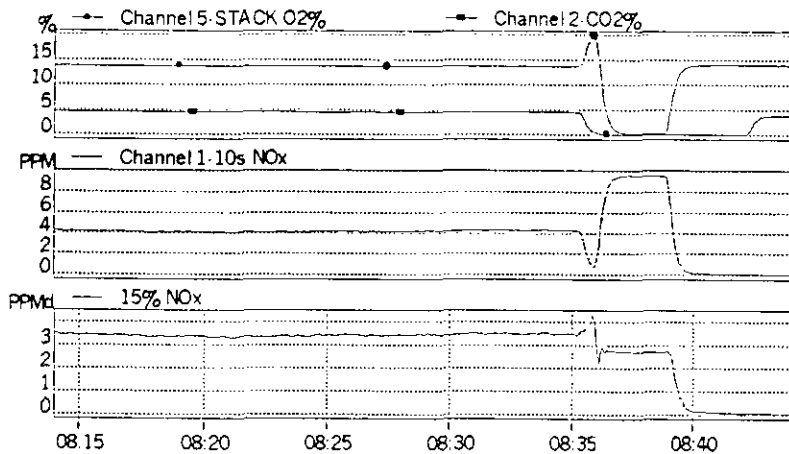
Date	Time	Channel 5-STACK O2% %	Channel 2-CO2% %	Channel 1-10s NOx PPM	15% NOx PPM
		Average	Average	Average	Average
1/11/02	8:13:59	13.72	4.37	4.24	3.486
1/11/02	8:14:14	13.72	4.38	4.18	3.438
1/11/02	8:14:29	13.72	4.39	4.18	3.438
1/11/02	8:14:44	13.72	4.38	4.19	3.442
1/11/02	8:14:59	13.72	4.38	4.17	3.429
1/11/02	8:15:14	13.71	4.39	4.18	3.429
1/11/02	8:15:29	13.71	4.39	4.18	3.431
1/11/02	8:15:44	13.71	4.41	4.18	3.427
1/11/02	8:15:59	13.71	4.41	4.16	3.416
1/11/02	8:16:14	13.71	4.41	4.15	3.408
1/11/02	8:16:29	13.71	4.41	4.18	3.427
1/11/02	8:16:44	13.71	4.41	4.16	3.414
1/11/02	8:16:59	13.71	4.41	4.15	3.399
1/11/02	8:17:14	13.71	4.41	4.15	3.407
1/11/02	8:17:29	13.71	4.41	4.12	3.38
1/11/02	8:17:44	13.71	4.41	4.07	3.335
1/11/02	8:17:59	13.71	4.4	4.1	3.36
1/11/02	8:18:14	13.7	4.4	4.12	3.375
1/11/02	8:18:29	13.71	4.4	4.08	3.347
1/11/02	8:18:44	13.7	4.4	4.1	3.362
1/11/02	8:18:59	13.7	4.4	4.11	3.369
1/11/02	8:19:14	13.7	4.4	4.12	3.376
1/11/02	8:19:29	13.7	4.4	4.14	3.393
1/11/02	8:19:44	13.7	4.4	4.13	3.38
1/11/02	8:19:59	13.7	4.4	4.09	3.349
1/11/02	8:20:14	13.7	4.39	4.07	3.338
1/11/02	8:20:29	13.7	4.39	4.07	3.334
1/11/02	8:20:44	13.69	4.39	4.09	3.348
1/11/02	8:20:59	13.69	4.39	4.04	3.31
1/11/02	8:21:14	13.69	4.4	4.05	3.317
1/11/02	8:21:29	13.69	4.39	4.12	3.374
1/11/02	8:21:44	13.69	4.4	4.13	3.379
1/11/02	8:21:59	13.69	4.4	4.08	3.342
1/11/02	8:22:14	13.69	4.4	4.08	3.34
1/11/02	8:22:29	13.69	4.4	4.07	3.334
1/11/02	8:22:44	13.69	4.39	4.08	3.339
1/11/02	8:22:59	13.69	4.39	4.14	3.388
1/11/02	8:23:14	13.7	4.39	4.14	3.392
1/11/02	8:23:29	13.7	4.39	4.08	3.34
1/11/02	8:23:44	13.7	4.36	4.13	3.386
1/11/02	8:23:59	13.7	4.36	4.11	3.366
1/11/02	8:24:14	13.69	4.37	4.1	3.358
1/11/02	8:24:29	13.69	4.37	4.17	3.416
1/11/02	8:24:44	13.69	4.37	4.18	3.419

1/11/02	8:24:59	13.69	4.37	4.19	3.424
1/11/02	8:25:14	13.69	4.37	4.17	3.409
1/11/02	8:25:29	13.69	4.37	4.21	3.441
1/11/02	8:25:44	13.69	4.37	4.22	3.449
1/11/02	8:25:59	13.69	4.39	4.2	3.435
1/11/02	8:26:14	13.69	4.4	4.19	3.431
1/11/02	8:26:29	13.68	4.4	4.14	3.388
1/11/02	8:26:44	13.68	4.4	4.19	3.422
1/11/02	8:26:59	13.68	4.4	4.17	3.407
1/11/02	8:27:14	13.69	4.37	4.15	3.40
1/11/02	8:27:29	13.69	4.37	4.17	3.41
1/11/02	8:27:44	13.69	4.37	4.19	3.431
1/11/02	8:27:59	13.69	4.37	4.19	3.426
1/11/02	8:28:14	13.69	4.37	4.19	3.427
1/11/02	8:28:29	13.69	4.37	4.18	3.422
1/11/02	8:28:44	13.68	4.37	4.21	3.442
1/11/02	8:28:59	13.68	4.38	4.23	3.456
1/11/02	8:29:14	13.67	4.38	4.22	3.448
1/11/02	8:29:29	13.67	4.38	4.2	3.431
1/11/02	8:29:44	13.67	4.4	4.18	3.416
1/11/02	8:29:59	13.67	4.4	4.19	3.424
1/11/02	8:30:14	13.68	4.4	4.23	3.454
1/11/02	8:30:29	13.67	4.4	4.25	3.468
1/11/02	8:30:44	13.67	4.4	4.28	3.494
1/11/02	8:30:59	13.66	4.41	4.3	3.508
1/11/02	8:31:14	13.66	4.4	4.28	3.488
1/11/02	8:31:29	13.67	4.4	4.24	3.458
1/11/02	8:31:44	13.66	4.4	4.28	3.488
1/11/02	8:31:59	13.67	4.4	4.28	3.492
1/11/02	8:32:14	13.67	4.40	4.30	3.51
1/11/02	8:32:29	13.66	4.39	4.26	3.475
1/11/02	8:32:44	13.66	4.4	4.26	3.474
1/11/02	8:32:59	13.66	4.4	4.23	3.443
1/11/02	8:33:14	13.66	4.4	4.26	3.475
1/11/02	8:33:29	13.66	4.4	4.28	3.486
1/11/02	8:33:44	13.66	4.4	4.31	3.51
1/11/02	8:33:59	13.66	4.39	4.32	3.517
1/11/02	8:34:14	13.66	4.39	4.26	3.468
1/11/02	8:34:29	13.66	4.39	4.27	3.476
1/11/02	8:34:44	13.66	4.38	4.27	3.477
1/11/02	8:34:59	13.66	4.38	4.26	3.471

AVERAGES: 13.69 4.39 4.18 3.42

1/11/02	8:35:14	13.77	4.28	4.2	
1/11/02	8:35:29	15.99	2.74	3.03	
1/11/02	8:35:44	18.97	0.96	1.32	
1/11/02	8:35:59	18.06	0.31	1.26	
1/11/02	8:36:14	9.47	0.09	5.39	
1/11/02	8:36:29	3.03	0.02	8.39	
1/11/02	8:36:44	0.99	-0.01	9.28	
1/11/02	8:36:59	0.39	-0.01	9.52	
1/11/02	8:37:14	0.21	-0.01	9.57	
1/11/02	8:37:29	0.15	-0.01	9.55	

1/11/02	8:37:44	0.12	ZERO O2	-0.01		9.59	9.5 NOx
1/11/02	8:37:59	0.11		-0.01		9.57	
1/11/02	8:38:14	0.1		-0.02		9.56	
1/11/02	8:38:29	0.1	0.1	-0.02		9.56	9.57
1/11/02	8:38:44	0.14		-0.02		9.53	
1/11/02	8:38:59	3.67		-0.01		7.8	
1/11/02	8:39:14	9.56		-0.01		3.13	
1/11/02	8:39:29	12.59		-0.02		1.01	
1/11/02	8:39:44	13.52	13.99 O2	-0.02	ZERO CO2	0.36	
1/11/02	8:39:59	13.78		-0.02		0.2	
1/11/02	8:40:14	13.86		-0.02		0.16	
1/11/02	8:40:29	13.91		-0.02		0.15	
1/11/02	8:40:44	13.98		-0.02	-0.02	0.13	
1/11/02	8:40:59	14.00		-0.02		0.12	
1/11/02	8:41:14	14.01		-0.02		0.1	
1/11/02	8:41:29	14.01		-0.02		0.1	
1/11/02	8:41:44	14.01		-0.02		0.1	
1/11/02	8:41:59	14.01		-0.02		0.09	
1/11/02	8:42:14	14.02		0.23		0.09	
1/11/02	8:42:29	14.01	14.01	1.98		0.1	
1/11/02	8:42:44	13.97		3.17	3.5 CO2	0.09	
1/11/02	8:42:59	13.95		3.55		0.07	
1/11/02	8:43:14	13.95		3.66		0.07	
1/11/02	8:43:29	13.94		3.68		0.06	
1/11/02	8:43:44	13.94		3.7		0.06	
1/11/02	8:43:59	13.94		3.69		0.05	
1/11/02	8:44:14	13.94		3.7	3.7	0.05	0.055



EMISSION SUMMARY
 COMBUSTION TURBINE 3
 KISSIMMEE ELECTRIC AUTHORITY RUN 2 RATA
 INTERCESSION CITY, FLORIDA
 01/11/02
 GAS FIRING

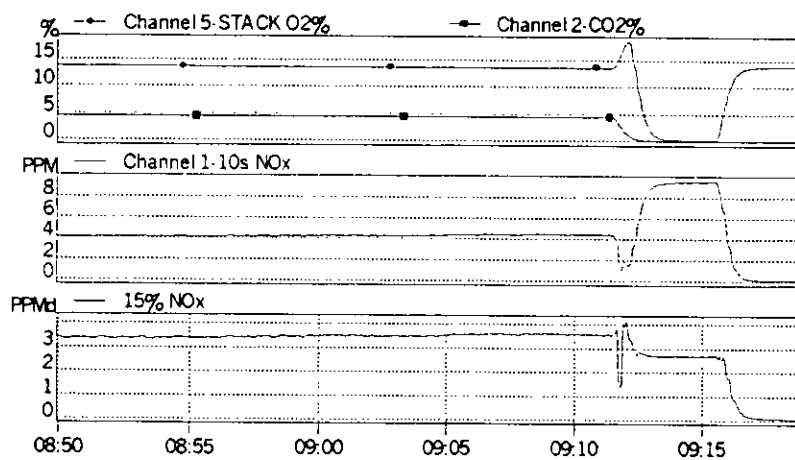
Date	Time	Channel 5-STACK O2% %	Channel 2-CO2% %	Channel 1-10s NOx PPM	15% NOx PPMd
		Average	Average	Average	Average
1/11/02	8:49:56	13.7	4.4	4.13	3.388
1/11/02	8:50:11	13.7	4.39	4.09	3.351
1/11/02	8:50:26	13.7	4.39	4.1	3.359
1/11/02	8:50:41	13.7	4.39	4.12	3.376
1/11/02	8:50:56	13.7	4.39	4.13	3.385
1/11/02	8:51:11	13.7	4.39	4.1	3.359
1/11/02	8:51:26	13.7	4.39	4.13	3.38
1/11/02	8:51:41	13.7	4.38	4.16	3.405
1/11/02	8:51:56	13.7	4.38	4.1	3.362
1/11/02	8:52:11	13.7	4.39	4.12	3.375
1/11/02	8:52:26	13.7	4.38	4.12	3.378
1/11/02	8:52:41	13.69	4.38	4.1	3.355
1/11/02	8:52:56	13.69	4.38	4.13	3.379
1/11/02	8:53:11	13.69	4.38	4.16	3.406
1/11/02	8:53:26	13.69	4.38	4.08	3.344
1/11/02	8:53:41	13.69	4.38	4.13	3.382
1/11/02	8:53:56	13.69	4.38	4.14	3.39
1/11/02	8:54:11	13.69	4.38	4.13	3.38
1/11/02	8:54:26	13.69	4.37	4.17	3.415
1/11/02	8:54:41	13.69	4.35	4.15	3.401
1/11/02	8:54:56	13.69	4.35	4.14	3.388
1/11/02	8:55:11	13.69	4.35	4.14	3.388
1/11/02	8:55:26	13.68	4.35	4.15	3.394
1/11/02	8:55:41	13.68	4.35	4.16	3.403
1/11/02	8:55:56	13.68	4.35	4.14	3.384
1/11/02	8:56:11	13.68	4.36	4.16	3.399
1/11/02	8:56:26	13.68	4.36	4.21	3.44
1/11/02	8:56:41	13.68	4.36	4.18	3.414
1/11/02	8:56:56	13.68	4.36	4.18	3.416
1/11/02	8:57:11	13.68	4.36	4.2	3.428
1/11/02	8:57:26	13.68	4.36	4.17	3.405
1/11/02	8:57:41	13.67	4.37	4.22	3.447
1/11/02	8:57:56	13.68	4.37	4.23	3.455
1/11/02	8:58:11	13.68	4.39	4.17	3.408
1/11/02	8:58:26	13.69	4.38	4.23	3.461
1/11/02	8:58:41	13.68	4.39	4.25	3.471
1/11/02	8:58:56	13.68	4.39	4.23	3.454
1/11/02	8:59:11	13.68	4.39	4.23	3.455
1/11/02	8:59:26	13.68	4.39	4.23	3.452
1/11/02	8:59:41	13.67	4.36	4.27	3.483
1/11/02	8:59:56	13.68	4.35	4.26	3.48
1/11/02	9:00:11	13.67	4.35	4.28	3.496
1/11/02	9:00:26	13.67	4.35	4.31	3.52
1/11/02	9:00:41	13.67	4.35	4.29	3.502
1/11/02	9:00:56	13.67	4.37	4.26	3.481

1/11/02	9:01:11	13.67	4.38	4.31	3.516
1/11/02	9:01:26	13.66	4.36	4.29	3.494
1/11/02	9:01:41	13.66	4.36	4.27	3.478
1/11/02	9:01:56	13.66	4.37	4.26	3.468
1/11/02	9:02:11	13.66	4.38	4.26	3.473
1/11/02	9:02:26	13.65	4.38	4.26	3.47
1/11/02	9:02:41	13.65	4.38	4.28	3.483
1/11/02	9:02:56	13.65	4.38	4.3	3.498
1/11/02	9:03:11	13.64	4.38	4.28	3.479
1/11/02	9:03:26	13.64	4.38	4.29	3.483
1/11/02	9:03:41	13.64	4.38	4.29	3.49
1/11/02	9:03:56	13.64	4.37	4.28	3.475
1/11/02	9:04:11	13.64	4.37	4.3	3.493
1/11/02	9:04:26	13.63	4.37	4.31	3.498
1/11/02	9:04:41	13.64	4.37	4.31	3.498
1/11/02	9:04:56	13.63	4.37	4.33	3.518
1/11/02	9:05:11	13.63	4.37	4.38	3.557
1/11/02	9:05:26	13.63	4.37	4.39	3.56
1/11/02	9:05:41	13.62	4.37	4.39	3.562
1/11/02	9:05:56	13.62	4.37	4.4	3.569
1/11/02	9:06:11	13.62	4.37	4.39	3.562
1/11/02	9:06:26	13.62	4.37	4.42	3.583
1/11/02	9:06:41	13.62	4.37	4.43	3.591
1/11/02	9:06:56	13.62	4.37	4.42	3.584
1/11/02	9:07:11	13.61	4.36	4.43	3.59
1/11/02	9:07:26	13.61	4.37	4.41	3.571
1/11/02	9:07:41	13.62	4.36	4.41	3.573
1/11/02	9:07:56	13.61	4.36	4.42	3.582
1/11/02	9:08:11	13.61	4.36	4.46	3.605
1/11/02	9:08:26	13.61	4.36	4.45	3.601
1/11/02	9:08:41	13.6	4.35	4.46	3.606
1/11/02	9:08:56	13.61	4.33	4.47	3.615
1/11/02	9:09:11	13.60	4.33	4.44	3.594
1/11/02	9:09:26	13.60	4.33	4.45	3.599
1/11/02	9:09:41	13.6	4.33	4.41	3.567
1/11/02	9:09:56	13.59	4.34	4.44	3.583
1/11/02	9:10:11	13.59	4.34	4.42	3.571
1/11/02	9:10:26	13.59	4.34	4.43	3.58
1/11/02	9:10:41	13.59	4.34	4.42	3.57
1/11/02	9:10:56	13.59	4.34	4.42	3.569

AVERAGES: 13.66 4.37 4.27 3.47

1/11/02	9:11:11	13.58	4.33	4.42	
1/11/02	9:11:26	13.68	4.29	4.37	
1/11/02	9:11:41	15.23	3.19	2.71	
1/11/02	9:11:56	17.78	1.58	1.71	
1/11/02	9:12:11	16.92	0.65	2.2	
1/11/02	9:12:26	10.07	0.24	5.26	
1/11/02	9:12:41	4.73	0.09	7.63	
1/11/02	9:12:56	1.89	0.03	8.78	
1/11/02	9:13:11	0.70	0.00	9.23	
1/11/02	9:13:26	0.31	0.00	9.35	
1/11/02	9:13:41	0.18	-0.01	9.41	

1/11/02	9:13:56	0.13	ZERO O2	-0.01	9.49	9.5 NOx
1/11/02	9:14:11	0.1		-0.01	9.47	
1/11/02	9:14:26	0.09		-0.01	9.49	
1/11/02	9:14:41	0.09		-0.01	9.5	
1/11/02	9:14:56	0.08		-0.01	9.49	
1/11/02	9:15:11	0.08	0.085	-0.01	9.51	
1/11/02	9:15:26	0.14		-0.01	9.51	9.5
1/11/02	9:15:41	2.81		-0.01	8.14	
1/11/02	9:15:56	7.99		-0.01	4.83	
1/11/02	9:16:11	11.36		-0.01	1.81	
1/11/02	9:16:26	12.94		-0.01	0.77	
1/11/02	9:16:41	13.51		-0.01	0.33	
1/11/02	9:16:56	13.73		-0.02	0.2	
1/11/02	9:17:11	13.81		-0.02	0.15	
1/11/02	9:17:26	13.84	13.99 O2	-0.02	0.13	
1/11/02	9:17:41	13.92		-0.02	0.11	ZERO NOx
1/11/02	9:17:56	13.93		-0.02	0.11	
1/11/02	9:18:11	13.93		-0.02	0.1	
1/11/02	9:18:26	13.94		-0.02	0.09	
1/11/02	9:18:41	13.94	13.94	-0.02	0.09	0.09



EMISSION SUMMARY
 COMBUSTION TURBINE 3
 SELENA ELECTRIC AUTHORITY
 SELENA CITY, FLORIDA
 01/11/02
 GAS FIRING

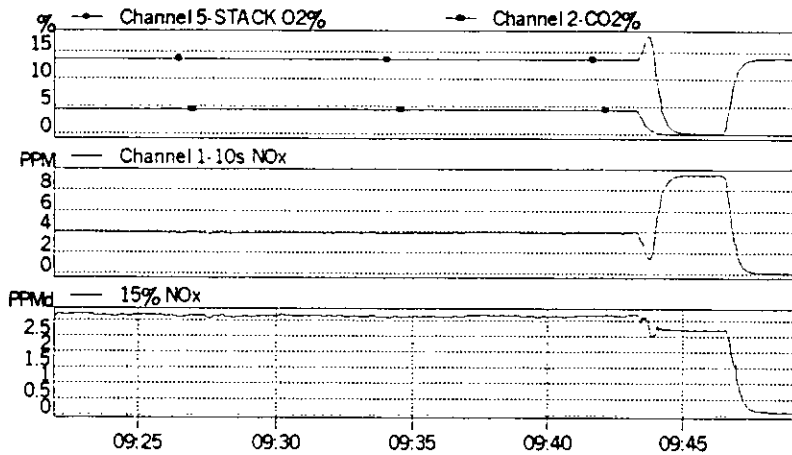
RUN 3

Date	Time	Channel 5-STACK O2% %	Channel 2-CO2% %	Channel 1-10s NOx PPM	15% NOx PPM
		Average	Average	Average	Average
1/11/02	9:21:57	13.64	4.36	3.91	3.176
1/11/02	9:22:12	13.64	4.37	3.91	3.178
1/11/02	9:22:27	13.63	4.37	3.92	3.185
1/11/02	9:22:42	13.64	4.37	3.94	3.197
1/11/02	9:22:57	13.63	4.37	3.94	3.203
1/11/02	9:23:12	13.63	4.37	3.94	3.196
1/11/02	9:23:27	13.63	4.37	3.89	3.157
1/11/02	9:23:42	13.64	4.37	3.88	3.151
1/11/02	9:23:57	13.64	4.35	3.86	3.14
1/11/02	9:24:12	13.64	4.36	3.87	3.144
1/11/02	9:24:27	13.64	4.35	3.87	3.149
1/11/02	9:24:42	13.64	4.35	3.88	3.151
01/11/02	9:24:57	13.64	4.35	3.9	3.173
1/11/02	9:25:12	13.64	4.37	3.91	3.176
1/11/02	9:25:27	13.64	4.37	3.9	3.172
1/11/02	9:25:42	13.64	4.37	3.9	3.168
1/11/02	9:25:57	13.64	4.37	3.87	3.141
1/11/02	9:26:12	13.64	4.38	3.86	3.134
1/11/02	9:26:27	13.64	4.37	3.82	3.104
1/11/02	9:26:42	13.64	4.35	3.86	3.135
1/11/02	9:26:57	13.64	4.35	3.89	3.156
1/11/02	9:27:12	13.64	4.35	3.87	3.144
1/11/02	9:27:27	13.64	4.38	3.81	3.091
1/11/02	9:27:42	13.64	4.36	3.85	3.13
1/11/02	9:27:57	13.64	4.35	3.87	3.142
1/11/02	9:28:12	13.64	4.36	3.82	3.105
1/11/02	9:28:27	13.64	4.36	3.82	3.103
1/11/02	9:28:42	13.64	4.36	3.85	3.125
1/11/02	9:28:57	13.64	4.36	3.84	3.118
1/11/02	9:29:12	13.64	4.36	3.85	3.13
1/11/02	9:29:27	13.65	4.35	3.86	3.143
1/11/02	9:29:42	13.65	4.35	3.86	3.14
1/11/02	9:29:57	13.65	4.35	3.86	3.138
1/11/02	9:30:12	13.65	4.37	3.89	3.162
1/11/02	9:30:27	13.65	4.37	3.88	3.158
1/11/02	9:30:42	13.65	4.37	3.86	3.138
1/11/02	9:30:57	13.64	4.37	3.87	3.146
1/11/02	9:31:12	13.64	4.37	3.87	3.143
1/11/02	9:31:27	13.64	4.37	3.88	3.149
1/11/02	9:31:42	13.64	4.37	3.85	3.128
1/11/02	9:31:57	13.63	4.37	3.86	3.131
1/11/02	9:32:12	13.63	4.37	3.88	3.149
1/11/02	9:32:27	13.63	4.37	3.86	3.132

1/11/02	9:32:42	13.62	4.37	3.87	3.134
1/11/02	9:32:57	13.62	4.37	3.86	3.129
1/11/02	9:33:12	13.62	4.37	3.86	3.125
01/11/02	9:33:27	13.61	4.36	3.9	3.156
1/11/02	9:33:42	13.61	4.36	3.84	3.103
1/11/02	9:33:57	13.61	4.36	3.84	3.106
1/11/02	9:34:12	13.6	4.36	3.85	3.109
1/11/02	9:34:27	13.6	4.36	3.85	3.114
1/11/02	9:34:42	13.6	4.36	3.85	3.109
1/11/02	9:34:57	13.6	4.36	3.86	3.123
1/11/02	9:35:12	13.59	4.36	3.86	3.114
1/11/02	9:35:27	13.6	4.35	3.86	3.118
1/11/02	9:35:42	13.59	4.36	3.87	3.122
1/11/02	9:35:57	13.59	4.36	3.86	3.12
1/11/02	9:36:12	13.59	4.36	3.85	3.107
1/11/02	9:36:27	13.59	4.36	3.86	3.117
1/11/02	9:36:42	13.59	4.36	3.86	3.117
1/11/02	9:36:57	13.59	4.36	3.9	3.147
1/11/02	9:37:12	13.58	4.36	3.91	3.156
1/11/02	9:37:27	13.59	4.37	3.92	3.163
1/11/02	9:37:42	13.59	4.37	3.93	3.173
1/11/02	9:37:57	13.59	4.36	3.91	3.151
1/11/02	9:38:12	13.59	4.37	3.91	3.153
1/11/02	9:38:27	13.59	4.37	3.92	3.159
1/11/02	9:38:42	13.59	4.34	3.91	3.158
1/11/02	9:38:57	13.59	4.34	3.89	3.136
1/11/02	9:39:12	13.59	4.34	3.87	3.125
1/11/02	9:39:27	13.59	4.34	3.87	3.126
1/11/02	9:39:42	13.59	4.34	3.86	3.116
1/11/02	9:39:57	13.59	4.35	3.88	3.128
1/11/02	9:40:12	13.59	4.35	3.88	3.133
1/11/02	9:40:27	13.59	4.35	3.87	3.125
1/11/02	9:40:42	13.59	4.35	3.88	3.13
1/11/02	9:40:57	13.59	4.38	3.89	3.138
1/11/02	9:41:12	13.59	4.38	3.91	3.159
1/11/02	9:41:27	13.59	4.38	3.92	3.161
1/11/02	9:41:42	13.59	4.38	3.91	3.157
1/11/02	9:41:57	13.59	4.38	3.92	3.161
1/11/02	9:42:12	13.59	4.36	3.92	3.165
1/11/02	9:42:27	13.59	4.36	3.91	3.153
1/11/02	9:42:42	13.59	4.35	3.89	3.14
1/11/02	9:42:57	13.59	4.34	3.93	3.175
AVERAGES:		13.62	4.36	3.88	3.14

1/11/02	9:43:12	13.6	4.29	3.96	
1/11/02	9:43:27	15.04	2.89	2.99	
1/11/02	9:43:42	17.57	1.12	1.63	
1/11/02	9:43:57	12.22	0.35	3.89	
1/11/02	9:44:12	4.73	0.08	7.49	
1/11/02	9:44:27	1.57	0.01	8.86	
1/11/02	9:44:42	0.53	-0.01	9.32	
1/11/02	9:44:57	0.24	-0.01	9.45	
1/11/02	9:45:12	0.14	-0.02	9.44	

1/11/02	9:45:27	0.11	ZERO O2	-0.01	9.47	9.5 NOx
1/11/02	9:45:42	0.09		-0.01	9.47	
1/11/02	9:45:57	0.08		-0.01	9.47	
1/11/02	9:46:12	0.07	0.08	-0.01	9.5	9.48
1/11/02	9:46:27	0.54		-0.01	9.27	
1/11/02	9:46:42	5.46		-0.01	6.12	
1/11/02	9:46:57	10.78		-0.01	2.36	
1/11/02	9:47:12	12.89		-0.01	0.72	
01/11/02	9:47:27	13.58		-0.02	0.28	
1/11/02	9:47:42	13.77		-0.02	0.17	
1/11/02	9:47:57	13.84		-0.02	0.14	
1/11/02	9:48:12	13.86	13.99 O2	-0.02	0.12	ZERO NOx
1/11/02	9:48:27	13.92		-0.02	0.1	
1/11/02	9:48:42	13.95		-0.02	0.1	
1/11/02	9:48:57	13.95		-0.02	0.09	
1/11/02	9:49:12	13.96	13.95	-0.02	0.09	0.09



EMISSION SUMMARY
 COMBUSTION TURBINE 3
 KISSIMMEE ELECTRIC AUTHORITY
 INTERCESSION CITY, FLORIDA
 01/11/02
 GAS FIRING

RUN 4

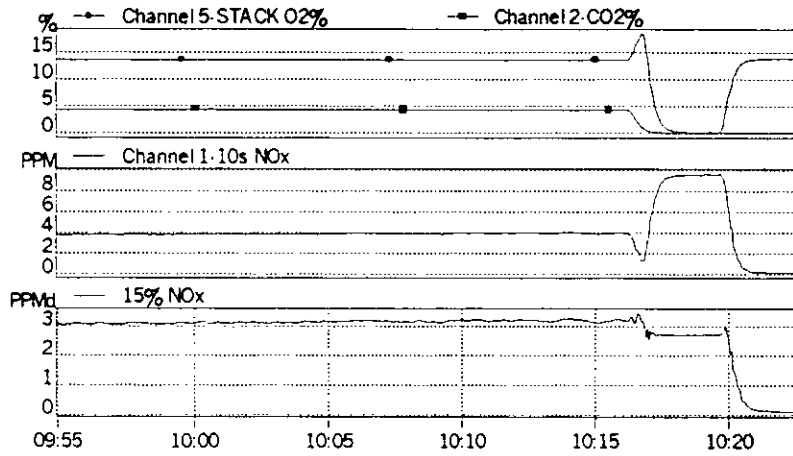
Date	Time	Channel 5-STACK O2% %	Channel 2-CO2% %	Channel 1-10s NOx PPM	15% NOx PPMd
		Average	Average	Average	Average
1/11/02	9:54:57	13.62	4.34	3.79	3.067
1/11/02	9:55:12	13.62	4.34	3.78	3.06
1/11/02	9:55:27	13.62	4.34	3.81	3.084
1/11/02	9:55:42	13.61	4.34	3.82	3.093
1/11/02	9:55:57	13.61	4.34	3.8	3.073
1/11/02	9:56:12	13.61	4.36	3.8	3.076
1/11/02	9:56:27	13.61	4.38	3.84	3.105
1/11/02	9:56:42	13.61	4.37	3.81	3.086
1/11/02	9:56:57	13.61	4.38	3.79	3.067
1/11/02	9:57:12	13.61	4.38	3.8	3.074
1/11/02	9:57:27	13.61	4.36	3.82	3.092
1/11/02	9:57:42	13.6	4.36	3.85	3.113
1/11/02	9:57:57	13.61	4.36	3.85	3.113
1/11/02	9:58:12	13.61	4.35	3.83	3.101
01/11/02	9:58:27	13.61	4.35	3.82	3.088
1/11/02	9:58:42	13.6	4.36	3.8	3.074
1/11/02	9:58:57	13.61	4.36	3.82	3.091
1/11/02	9:59:12	13.61	4.36	3.82	3.091
1/11/02	9:59:27	13.61	4.36	3.86	3.124
1/11/02	9:59:42	13.61	4.36	3.83	3.101
1/11/02	9:59:57	13.6	4.39	3.85	3.112
1/11/02	10:00:12	13.61	4.39	3.9	3.153
1/11/02	10:00:27	13.61	4.39	3.84	3.11
1/11/02	10:00:42	13.61	4.39	3.85	3.117
1/11/02	10:00:57	13.61	4.39	3.84	3.111
1/11/02	10:01:12	13.61	4.38	3.85	3.117
1/11/02	10:01:27	13.61	4.39	3.86	3.125
1/11/02	10:01:42	13.62	4.38	3.87	3.132
1/11/02	10:01:57	13.62	4.38	3.86	3.127
1/11/02	10:02:12	13.62	4.38	3.87	3.137
1/11/02	10:02:27	13.63	4.37	3.84	3.117
1/11/02	10:02:42	13.63	4.37	3.84	3.113
1/11/02	10:02:57	13.64	4.37	3.86	3.133
1/11/02	10:03:12	13.63	4.37	3.84	3.113
1/11/02	10:03:27	13.63	4.37	3.85	3.126
1/11/02	10:03:42	13.64	4.37	3.83	3.111
1/11/02	10:03:57	13.64	4.37	3.88	3.153
1/11/02	10:04:12	13.64	4.37	3.89	3.16
1/11/02	10:04:27	13.64	4.37	3.86	3.139
1/11/02	10:04:42	13.64	4.37	3.88	3.156
1/11/02	10:04:57	13.64	4.37	3.89	3.162
1/11/02	10:05:12	13.64	4.36	3.88	3.154
1/11/02	10:05:27	13.64	4.37	3.9	3.169
1/11/02	10:05:42	13.64	4.37	3.92	3.183
1/11/02	10:05:57	13.64	4.36	3.94	3.199

1/11/02	10:06:12	13.64	4.37	3.93	3.189
1/11/02	10:06:27	13.64	4.36	3.94	3.197
1/11/02	10:06:42	13.63	4.36	3.92	3.181
1/11/02	10:06:57	13.64	4.36	3.9	3.17
1/11/02	10:07:12	13.64	4.36	3.9	3.172
1/11/02	10:07:27	13.64	4.36	3.89	3.16
1/11/02	10:07:42	13.64	4.36	3.88	3.152
1/11/02	10:07:57	13.63	4.36	3.88	3.15
1/11/02	10:08:12	13.63	4.36	3.91	3.177
1/11/02	10:08:27	13.62	4.36	3.92	3.181
1/11/02	10:08:42	13.63	4.35	3.88	3.148
1/11/02	10:08:57	13.62	4.36	3.88	3.144
1/11/02	10:09:12	13.62	4.36	3.86	3.132
1/11/02	10:09:27	13.62	4.36	3.94	3.192
1/11/02	10:09:42	13.62	4.36	3.95	3.199
1/11/02	10:09:57	13.61	4.36	3.97	3.211
1/11/02	10:10:12	13.6	4.37	3.95	3.198
1/11/02	10:10:27	13.6	4.36	3.98	3.222
1/11/02	10:10:42	13.61	4.36	3.98	3.218
1/11/02	10:10:57	13.61	4.37	3.92	3.167
1/11/02	10:11:12	13.6	4.37	3.95	3.192
1/11/02	10:11:27	13.6	4.36	3.97	3.208
1/11/02	10:11:42	13.6	4.36	3.97	3.206
1/11/02	10:11:57	13.6	4.36	3.95	3.193
1/11/02	10:12:12	13.6	4.34	4	3.236
1/11/02	10:12:27	13.6	4.33	3.98	3.215
1/11/02	10:12:42	13.6	4.33	3.98	3.213
1/11/02	10:12:57	13.6	4.33	3.93	3.182
1/11/02	10:13:12	13.6	4.33	3.91	3.164
1/11/02	10:13:27	13.6	4.33	3.92	3.171
1/11/02	10:13:42	13.59	4.34	4	3.229
1/11/02	10:13:57	13.59	4.35	4.03	3.255
1/11/02	10:14:12	13.59	4.35	4.01	3.237
1/11/02	10:14:27	13.59	4.35	3.98	3.216
1/11/02	10:14:42	13.6	4.35	3.94	3.184
1/11/02	10:14:57	13.6	4.35	3.88	3.136
1/11/02	10:15:12	13.6	4.38	3.89	3.144
1/11/02	10:15:27	13.59	4.38	3.94	3.179
1/11/02	10:15:42	13.59	4.38	3.98	3.216
1/11/02	10:15:57	13.59	4.37	3.99	3.223

AVERAGES: 13.62 4.36 3.89 3.15

1/11/02	10:16:12	13.77	4.26	3.88	
1/11/02	10:16:27	15.9	2.8	2.77	
1/11/02	10:16:42	18.06	1.1	1.53	
1/11/02	10:16:57	12.82	0.35	3.8	
1/11/02	10:17:12	5.49	0.1	7.15	
1/11/02	10:17:27	1.86	0.02	8.83	
1/11/02	10:17:42	0.64	0	9.34	
1/11/02	10:17:57	0.27	-0.01	9.5	
1/11/02	10:18:12	0.15	-0.01	9.54	
1/11/02	10:18:27	0.11	-0.01	9.58	
1/11/02	10:18:42	0.09	-0.01	9.59	

1/11/02	10:18:57	0.08	ZERO O2	-0.01	9.58	9.5 NOx
1/11/02	10:19:12	0.07		-0.01	9.6	
1/11/02	10:19:27	0.07	0.07	-0.02	9.59	9.59
1/11/02	10:19:42	0.95		-0.01	9.39	
1/11/02	10:19:57	6.54		-0.01	6.23	
1/11/02	10:20:12	10.96		-0.01	2.44	
1/11/02	10:20:27	12.85		-0.02	0.9	
1/11/02	10:20:42	13.53		-0.02	0.39	
1/11/02	10:20:57	13.74		-0.02	0.22	
1/11/02	10:21:12	13.82		-0.02	0.17	
1/11/02	10:21:27	13.91		-0.02	0.16	
1/11/02	10:21:42	13.94	ZERO O2	-0.02	0.14	ZERO NOx
1/11/02	10:21:57	13.95		-0.02	0.13	
1/11/02	10:22:12	13.95		-0.02	0.12	
1/11/02	10:22:27	13.96		-0.02	0.12	
1/11/02	10:22:42	13.96	13.96	-0.02	0.12	.12



EMISSION SUMMARY
 COMBUSTION TURBINE 3
 KISSIMMEE ELECTRIC AUTHORITY RUN 5
 INTERCESSION CITY, FLORIDA
 1/11/02
 GAS FIRING

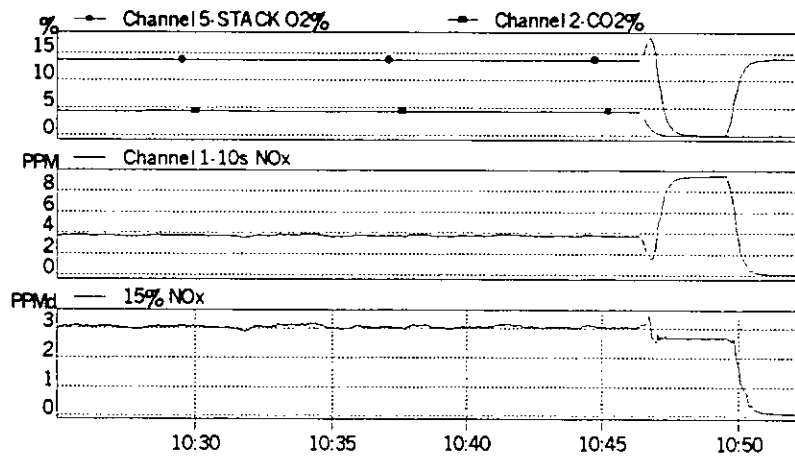
Date	Time	Channel 5-STACK O2% %	Channel 2-CO2% %	Channel 1-10s NOx PPM	15% NOx PPMd
		Average	Average	Average	Average
1/11/02	10:25:01	13.69	4.35	3.7	3.027
1/11/02	10:25:16	13.68	4.35	3.76	3.07
1/11/02	10:25:31	13.67	4.34	3.78	3.089
1/11/02	10:25:46	13.68	4.33	3.78	3.087
1/11/02	10:26:01	13.68	4.33	3.75	3.066
1/11/02	10:26:16	13.68	4.32	3.73	3.043
1/11/02	10:26:31	13.67	4.33	3.77	3.081
1/11/02	10:26:46	13.67	4.34	3.77	3.081
1/11/02	10:27:01	13.67	4.34	3.74	3.053
1/11/02	10:27:16	13.67	4.34	3.71	3.03
1/11/02	10:27:31	13.68	4.34	3.68	3.008
1/11/02	10:27:46	13.68	4.34	3.66	2.987
1/11/02	10:28:01	13.67	4.35	3.69	3.009
1/11/02	10:28:16	13.67	4.37	3.73	3.046
1/11/02	10:28:31	13.67	4.37	3.78	3.079
1/11/02	10:28:46	13.66	4.38	3.75	3.057
1/11/02	10:29:01	13.67	4.38	3.76	3.067
1/11/02	10:29:16	13.67	4.38	3.76	3.07
1/11/02	10:29:31	13.67	4.37	3.78	3.085
1/11/02	10:29:46	13.66	4.37	3.77	3.074
1/11/02	10:30:01	13.67	4.37	3.77	3.078
1/11/02	10:30:16	13.67	4.37	3.75	3.057
1/11/02	10:30:31	13.67	4.37	3.73	3.042
1/11/02	10:30:46	13.67	4.37	3.71	3.029
1/11/02	10:31:01	13.67	4.37	3.71	3.027
1/11/02	10:31:16	13.68	4.36	3.67	3.001
1/11/02	10:31:31	13.68	4.36	3.62	2.962
1/11/02	10:31:46	13.68	4.36	3.58	2.929
1/11/02	10:32:01	13.67	4.36	3.7	3.021
1/11/02	10:32:16	13.67	4.36	3.77	3.073
1/11/02	10:32:31	13.67	4.36	3.74	3.055
1/11/02	10:32:46	13.67	4.36	3.75	3.062
1/11/02	10:33:01	13.68	4.36	3.82	3.118
1/11/02	10:33:16	13.68	4.35	3.8	3.108
1/11/02	10:33:31	13.68	4.35	3.81	3.116
1/11/02	10:33:46	13.68	4.35	3.81	3.115
1/11/02	10:34:01	13.68	4.35	3.84	3.135
1/11/02	10:34:16	13.68	4.35	3.85	3.151
1/11/02	10:34:31	13.69	4.35	3.8	3.111
1/11/02	10:34:46	13.69	4.35	3.71	3.038
1/11/02	10:35:01	13.69	4.35	3.67	3.002
1/11/02	10:35:16	13.69	4.35	3.67	3.002
1/11/02	10:35:31	13.69	4.35	3.68	3.007
1/11/02	10:35:46	13.68	4.35	3.76	3.072
1/11/02	10:36:01	13.68	4.35	3.76	3.074

1/11/02	10:36:16	13.68	4.35	3.73	3.052
1/11/02	10:36:31	13.69	4.35	3.7	3.029
1/11/02	10:36:46	13.68	4.35	3.72	3.04
1/11/02	10:37:01	13.68	4.35	3.73	3.052
1/11/02	10:37:16	13.69	4.34	3.69	3.021
1/11/02	10:37:31	13.68	4.34	3.68	3.011
1/11/02	10:37:46	13.68	4.35	3.74	3.058
1/11/02	10:38:01	13.67	4.35	3.81	3.11
1/11/02	10:38:16	13.67	4.35	3.81	3.107
1/11/02	10:38:31	13.68	4.35	3.78	3.089
1/11/02	10:38:46	13.68	4.32	3.7	3.021
1/11/02	10:39:01	13.68	4.32	3.69	3.018
1/11/02	10:39:16	13.68	4.32	3.67	2.999
1/11/02	10:39:31	13.68	4.32	3.68	3.008
1/11/02	10:39:46	13.67	4.33	3.73	3.046
1/11/02	10:40:01	13.67	4.32	3.72	3.036
1/11/02	10:40:16	13.67	4.32	3.72	3.039
1/11/02	10:40:31	13.68	4.34	3.72	3.039
1/11/02	10:40:46	13.68	4.36	3.73	3.046
1/11/02	10:41:01	13.67	4.35	3.79	3.091
1/11/02	10:41:16	13.67	4.36	3.84	3.137
1/11/02	10:41:31	13.67	4.36	3.84	3.136
1/11/02	10:41:46	13.67	4.36	3.8	3.103
1/11/02	10:42:01	13.68	4.35	3.77	3.079
1/11/02	10:42:16	13.68	4.33	3.75	3.066
1/11/02	10:42:31	13.68	4.32	3.73	3.047
1/11/02	10:42:46	13.68	4.32	3.7	3.023
1/11/02	10:43:01	13.68	4.32	3.72	3.04
1/11/02	10:43:16	13.68	4.32	3.74	3.055
1/11/02	10:43:31	13.68	4.32	3.74	3.058
1/11/02	10:43:46	13.68	4.32	3.73	3.049
1/11/02	10:44:01	13.67	4.32	3.71	3.026
1/11/02	10:44:16	13.67	4.33	3.79	3.089
1/11/02	10:44:31	13.67	4.33	3.82	3.114
1/11/02	10:44:46	13.68	4.32	3.75	3.064
1/11/02	10:45:01	13.68	4.32	3.72	3.04
1/11/02	10:45:16	13.68	4.33	3.72	3.038
1/11/02	10:45:31	13.68	4.35	3.73	3.046
1/11/02	10:45:46	13.69	4.34	3.73	3.051
1/11/02	10:46:01	13.68	4.34	3.72	3.037

ACERAGES: 13.68 4.35 3.74 3.06

1/11/02	10:46:16	13.86	4.19	3.66	
1/11/02	10:46:31	16.11	2.67	2.59	
1/11/02	10:46:46	16.9	1.03	1.93	
1/11/02	10:47:01	9.78	0.32	5.16	
1/11/02	10:47:16	3.67	0.08	7.88	
1/11/02	10:47:31	1.22	0.02	8.94	
1/11/02	10:47:46	0.45	-0.01	9.3	
1/11/02	10:48:01	0.21	-0.01	9.38	
1/11/02	10:48:16	0.12	-0.01	9.45	
1/11/02	10:48:31	0.1	-0.02	9.46	
1/11/02	10:48:46	0.08	-0.02	9.44	

1/11/02	10:49:01	0.07	ZERO O2	-0.02	9.47	9.5 NOx
1/11/02	10:49:16	0.07	0.07	-0.02	9.5	9.47
1/11/02	10:49:31	0.56		-0.02	9.26	
1/11/02	10:49:46	5.37		-0.02	6.59	
1/11/02	10:50:01	10.32		-0.02	2.65	
1/11/02	10:50:16	12.69		-0.02	0.96	
1/11/02	10:50:31	13.54		-0.02	0.37	
1/11/02	10:50:46	13.8		-0.02	0.2	
1/11/02	10:51:01	13.9		-0.02	0.14	
1/11/02	10:51:16	14	13.99 O2	-0.02	0.12	ZERO NOx
1/11/02	10:51:31	14.01		-0.02	0.1	
1/11/02	10:51:46	14.02		-0.02	0.09	
1/11/02	10:52:01	14.02		-0.02	0.09	
1/11/02	10:52:16	14.03	14.02	-0.02	0.09	0.09



EMISSION SUMMARY
 COMBUSTION TURBINE 3
 KISSIMMEE ELECTRIC AUTHORITY
 INTERCESSION CITY, FLORIDA
 1/11/02
 GAS FIRING

RUN 6

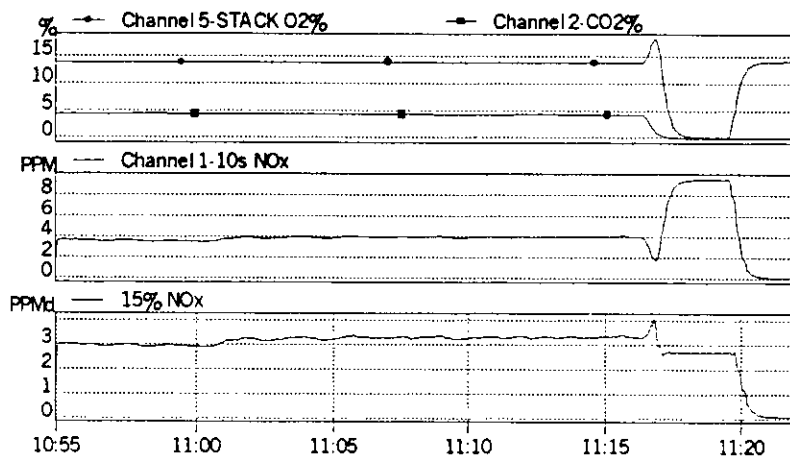
Date	Time	Channel 5-STACK O2% %	Channel 2-CO2% %	Channel 1-10s NOx PPM	15% NOx PPMd
		Average	Average	Average	Average
1/11/02	10:54:58	13.75	4.28	2.75	2.274
1/11/02	10:55:13	13.76	4.28	3.66	3.022
1/11/02	10:55:28	13.76	4.28	3.64	3.006
1/11/02	10:55:43	13.75	4.28	3.64	3.006
1/11/02	10:55:58	13.76	4.28	3.62	2.99
1/11/02	10:56:13	13.76	4.28	3.63	3
1/11/02	10:56:28	13.77	4.28	3.57	2.955
1/11/02	10:56:43	13.77	4.28	3.53	2.919
1/11/02	10:56:58	13.77	4.28	3.55	2.938
1/11/02	10:57:13	13.76	4.29	3.61	2.984
1/11/02	10:57:28	13.77	4.29	3.63	3.006
1/11/02	10:57:43	13.77	4.31	3.6	2.983
1/11/02	10:57:58	13.78	4.31	3.53	2.927
1/11/02	10:58:13	13.78	4.31	3.5	2.904
1/11/02	10:58:28	13.78	4.31	3.52	2.915
1/11/02	10:58:43	13.78	4.31	3.55	2.94
1/11/02	10:58:58	13.78	4.29	3.59	2.977
1/11/02	10:59:13	13.79	4.28	3.55	2.947
1/11/02	10:59:28	13.79	4.3	3.55	2.941
1/11/02	10:59:43	13.79	4.29	3.52	2.921
1/11/02	10:59:58	13.79	4.29	3.52	2.924
1/11/02	11:00:13	13.79	4.29	3.5	2.907
1/11/02	11:00:28	13.79	4.29	3.52	2.919
1/11/02	11:00:43	13.79	4.29	3.6	2.985
1/11/02	11:00:58	13.79	4.29	3.75	3.11
1/11/02	11:01:13	13.78	4.29	3.81	3.156
1/11/02	11:01:28	13.78	4.28	3.86	3.198
1/11/02	11:01:43	13.78	4.28	3.93	3.257
1/11/02	11:01:58	13.79	4.28	3.91	3.244
1/11/02	11:02:13	13.79	4.27	3.84	3.19
1/11/02	11:02:28	13.8	4.27	3.8	3.159
1/11/02	11:02:43	13.8	4.26	3.83	3.181
1/11/02	11:02:58	13.81	4.26	3.85	3.203
1/11/02	11:03:13	13.81	4.27	3.92	3.258
1/11/02	11:03:28	13.8	4.27	3.96	3.29
1/11/02	11:03:43	13.8	4.26	3.96	3.297
1/11/02	11:03:58	13.81	4.26	3.96	3.292
1/11/02	11:04:13	13.82	4.26	3.9	3.246
1/11/02	11:04:28	13.82	4.25	3.84	3.197
1/11/02	11:04:43	13.82	4.25	3.83	3.192
1/11/02	11:04:58	13.81	4.25	3.87	3.223
1/11/02	11:05:13	13.81	4.25	3.94	3.281
1/11/02	11:05:28	13.81	4.25	4.01	3.334
1/11/02	11:05:43	13.81	4.26	4.02	3.343
1/11/02	11:05:58	13.81	4.26	3.98	3.31

1/11/02	11:06:13	13.82	4.26	3.95	3.29
1/11/02	11:06:28	13.82	4.25	3.94	3.284
1/11/02	11:06:43	13.82	4.25	3.94	3.281
1/11/02	11:06:58	13.82	4.25	3.93	3.276
01/11/02	11:07:13	13.82	4.25	3.95	3.289
1/11/02	11:07:28	13.81	4.25	4	3.33
1/11/02	11:07:43	13.82	4.25	3.94	3.284
1/11/02	11:07:58	13.82	4.24	3.91	3.259
1/11/02	11:08:13	13.81	4.24	3.96	3.299
1/11/02	11:08:28	13.81	4.23	3.98	3.315
1/11/02	11:08:43	13.81	4.21	4.01	3.337
1/11/02	11:08:58	13.82	4.21	4.01	3.34
1/11/02	11:09:13	13.82	4.21	3.93	3.271
1/11/02	11:09:28	13.82	4.21	3.86	3.218
1/11/02	11:09:43	13.82	4.21	3.88	3.234
1/11/02	11:09:58	13.81	4.21	3.92	3.267
1/11/02	11:10:13	13.82	4.21	3.95	3.294
1/11/02	11:10:28	13.81	4.22	3.95	3.29
1/11/02	11:10:43	13.81	4.22	4	3.326
1/11/02	11:10:58	13.81	4.21	3.99	3.322
1/11/02	11:11:13	13.81	4.21	3.93	3.274
1/11/02	11:11:28	13.81	4.21	3.96	3.294
1/11/02	11:11:43	13.81	4.23	4	3.331
1/11/02	11:11:58	13.81	4.23	4.02	3.348
1/11/02	11:12:13	13.81	4.23	3.94	3.283
1/11/02	11:12:28	13.81	4.23	3.95	3.292
1/11/02	11:12:43	13.81	4.24	4.01	3.335
1/11/02	11:12:58	13.81	4.23	4	3.325
1/11/02	11:13:13	13.81	4.22	3.96	3.291
1/11/02	11:13:28	13.81	4.2	3.98	3.313
1/11/02	11:13:43	13.8	4.21	4.01	3.333
1/11/02	11:13:58	13.8	4.21	3.98	3.308
1/11/02	11:14:13	13.79	4.21	3.96	3.285
1/11/02	11:14:28	13.8	4.2	3.97	3.3
1/11/02	11:14:43	13.8	4.2	4	3.318
1/11/02	11:14:58	13.79	4.2	4.02	3.339
1/11/02	11:15:13	13.79	4.2	4.03	3.346
1/11/02	11:15:28	13.79	4.2	4.07	3.376
1/11/02	11:15:43	13.8	4.2	4.05	3.367
1/11/02	11:15:58	13.80	4.19	4.00	3.33

AVERAGES: 13.80 4.25 3.83 3.18

1/11/02	11:16:13	13.81	4.17	3.97	
1/11/02	11:16:28	14.96	3.41	3.45	
1/11/02	11:16:43	17.73	1.6	2.07	
1/11/02	11:16:58	14.07	0.54	3.24	
1/11/02	11:17:13	6.22	0.13	6.75	
1/11/02	11:17:28	2.03	0.02	8.61	
1/11/02	11:17:43	0.71	-0.02	9.25	
1/11/02	11:17:58	0.28	-0.03	9.43	
1/11/02	11:18:13	0.15	-0.03	9.5	
1/11/02	11:18:28	0.1	-0.03	9.52	
1/11/02	11:18:43	0.08	-0.03	9.53	

1/11/02	11:18:58	0.07	ZERO O2	-0.04	9.55	9.5 NOx
1/11/02	11:19:13	0.06	0.065	-0.04	9.53	9.53
1/11/02	11:19:28	0.38		-0.04	9.43	
1/11/02	11:19:43	5.16		-0.03	6.79	
1/11/02	11:19:58	10.43		-0.04	2.84	
1/11/02	11:20:13	12.82		-0.04	0.95	
1/11/02	11:20:28	13.64		-0.04	0.35	
1/11/02	11:20:43	13.9	13.99 O2	-0.04	0.18	
1/11/02	11:20:58	13.99		-0.04	0.13	ZERO NOx
1/11/02	11:21:13	14.02		-0.04	0.11	
1/11/02	11:21:28	14.04		-0.04	0.1	
1/11/02	11:21:43	14.04		-0.04	0.09	
1/11/02	11:21:58	14.04	14.04	-0.04	0.08	.09



EMISSION SUMMARY
 COMBUSTION TURBINE 3
 KISSIMMEE ELECTRIC AUTHORITY
 INTERCESSION CITY, FLORIDA
 1/11/02
 GAS FIRING

RUN 7

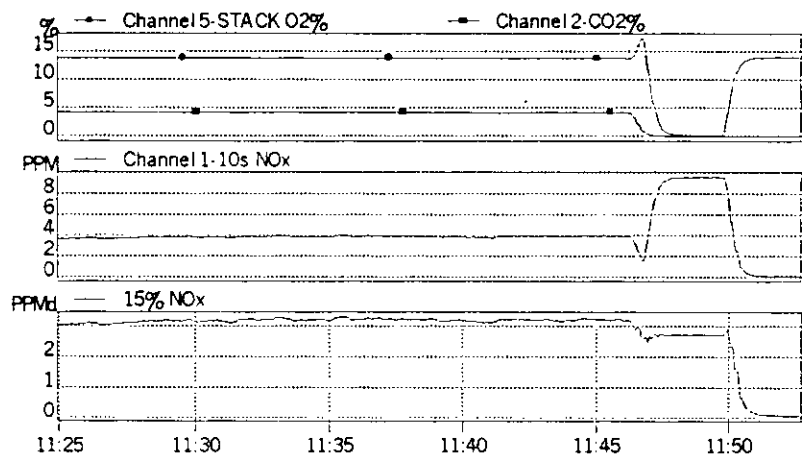
Date	Time	Channel 5-STACK O2% %	Channel 2-CO2% %	Channel 1-10s NOx PPM	15% NOx PPMd
		Average	Average	Average	Average
1/11/02	11:24:56	13.8	4.14	3.67	3.049
1/11/02	11:25:11	13.79	4.13	3.66	3.038
1/11/02	11:25:26	13.8	4.13	3.67	3.047
1/11/02	11:25:41	13.79	4.13	3.67	3.048
01/11/02	11:25:56	13.79	4.13	3.73	3.095
1/11/02	11:26:11	13.79	4.13	3.72	3.089
1/11/02	11:26:26	13.8	4.13	3.66	3.042
1/11/02	11:26:41	13.8	4.13	3.66	3.038
1/11/02	11:26:56	13.8	4.13	3.69	3.062
1/11/02	11:27:11	13.8	4.14	3.69	3.065
1/11/02	11:27:26	13.8	4.14	3.73	3.1
1/11/02	11:27:41	13.8	4.14	3.74	3.103
1/11/02	11:27:56	13.8	4.14	3.79	3.144
1/11/02	11:28:11	13.79	4.14	3.8	3.159
1/11/02	11:28:26	13.79	4.14	3.81	3.16
1/11/02	11:28:41	13.79	4.15	3.82	3.174
1/11/02	11:28:56	13.79	4.16	3.85	3.192
1/11/02	11:29:11	13.79	4.16	3.82	3.169
1/11/02	11:29:26	13.79	4.16	3.82	3.169
1/11/02	11:29:41	13.79	4.16	3.87	3.207
1/11/02	11:29:56	13.79	4.16	3.8	3.153
1/11/02	11:30:11	13.79	4.15	3.79	3.145
1/11/02	11:30:26	13.79	4.16	3.82	3.171
1/11/02	11:30:41	13.79	4.15	3.84	3.189
1/11/02	11:30:56	13.8	4.14	3.79	3.153
1/11/02	11:31:11	13.8	4.14	3.76	3.124
1/11/02	11:31:26	13.8	4.14	3.81	3.161
1/11/02	11:31:41	13.79	4.14	3.88	3.219
1/11/02	11:31:56	13.79	4.14	3.91	3.241
1/11/02	11:32:11	13.80	4.13	3.86	3.208
1/11/02	11:32:26	13.8	4.13	3.87	3.217
1/11/02	11:32:41	13.8	4.13	3.88	3.222
1/11/02	11:32:56	13.79	4.13	3.94	3.273
1/11/02	11:33:11	13.8	4.12	3.94	3.269
1/11/02	11:33:26	13.8	4.12	3.88	3.221
1/11/02	11:33:41	13.80	4.12	3.84	3.19
1/11/02	11:33:56	13.8	4.11	3.84	3.193
1/11/02	11:34:11	13.79	4.12	3.87	3.213
1/11/02	11:34:26	13.8	4.11	3.87	3.214
1/11/02	11:34:41	13.8	4.11	3.88	3.22
1/11/02	11:34:56	13.79	4.11	3.85	3.193
1/11/02	11:35:11	13.78	4.11	3.93	3.26
1/11/02	11:35:26	13.78	4.12	3.98	3.30
1/11/02	11:35:41	13.79	4.12	3.93	3.262
1/11/02	11:35:56	13.79	4.11	3.87	3.213

1/11/02	11:36:11	13.78	4.11	3.89	3.225
1/11/02	11:36:26	13.78	4.11	3.93	3.254
1/11/02	11:36:41	13.78	4.11	3.93	3.258
1/11/02	11:36:56	13.78	4.11	3.92	3.25
1/11/02	11:37:11	13.79	4.1	3.91	3.247
1/11/02	11:37:26	13.78	4.1	3.89	3.224
1/11/02	11:37:41	13.78	4.1	3.92	3.245
1/11/02	11:37:56	13.77	4.1	3.89	3.218
1/11/02	11:38:11	13.77	4.1	3.89	3.223
1/11/02	11:38:26	13.78	4.1	3.88	3.216
1/11/02	11:38:41	13.77	4.09	3.91	3.233
1/11/02	11:38:56	13.77	4.09	3.87	3.205
1/11/02	11:39:11	13.77	4.1	3.84	3.178
1/11/02	11:39:26	13.77	4.09	3.84	3.18
1/11/02	11:39:41	13.76	4.1	3.88	3.211
1/11/02	11:39:56	13.77	4.09	3.87	3.2
1/11/02	11:40:11	13.76	4.1	3.82	3.158
1/11/02	11:40:26	13.76	4.07	3.82	3.154
1/11/02	11:40:41	13.76	4.07	3.79	3.128
1/11/02	11:40:56	13.76	4.07	3.77	3.118
1/11/02	11:41:11	13.76	4.06	3.8	3.136
1/11/02	11:41:26	13.75	4.07	3.9	3.22
1/11/02	11:41:41	13.75	4.07	3.91	3.223
1/11/02	11:41:56	13.74	4.08	3.92	3.228
1/11/02	11:42:11	13.73	4.08	3.91	3.219
1/11/02	11:42:26	13.74	4.08	3.91	3.221
1/11/02	11:42:41	13.74	4.08	3.90	3.21
1/11/02	11:42:56	13.73	4.08	3.9	3.211
1/11/02	11:43:11	13.73	4.08	3.91	3.215
1/11/02	11:43:26	13.73	4.08	3.87	3.186
1/11/02	11:43:41	13.73	4.08	3.85	3.169
1/11/02	11:43:56	13.73	4.09	3.89	3.201
1/11/02	11:44:11	13.73	4.11	3.89	3.203
1/11/02	11:44:26	13.72	4.1	3.95	3.251
1/11/02	11:44:41	13.73	4.1	3.94	3.238
1/11/02	11:44:56	13.73	4.1	3.92	3.23
1/11/02	11:45:11	13.73	4.10	3.91	3.22
1/11/02	11:45:26	13.73	4.1	3.88	3.192
1/11/02	11:45:41	13.73	4.1	3.92	3.224
1/11/02	11:45:56	13.73	4.09	3.9	3.204

AVERAGES: 13.77 4.11 3.85 3.18

1/11/02	11:46:11	13.72	4.03	3.86	
1/11/02	11:46:26	14.82	2.86	3.05	
1/11/02	11:46:41	16.85	1.14	1.89	
1/11/02	11:46:56	11.07	0.32	4.4	
1/11/02	11:47:11	4.39	0.06	7.54	
1/11/02	11:47:26	1.39	-0.02	8.98	
1/11/02	11:47:41	0.49	-0.04	9.35	
1/11/02	11:47:56	0.22	-0.05	9.5	
1/11/02	11:48:11	0.14	-0.05	9.54	
1/11/02	11:48:26	0.1	-0.05	9.55	
1/11/02	11:48:41	0.09	-0.05	9.58	

1/11/02	11:48:56	0.08	ZERO O2	-0.05	9.57	9.5 NOx
1/11/02	11:49:11	0.07		-0.06	9.57	
1/11/02	11:49:26	0.07	0.07	-0.06	9.59	
1/11/02	11:49:41	0.09		-0.06	9.57	9.58
1/11/02	11:49:56	3.24		-0.06	8.28	
1/11/02	11:50:11	9.16		-0.06	4.12	
1/11/02	11:50:26	12.23		-0.06	1.37	
1/11/02	11:50:41	13.4		-0.06	0.44	
01/11/02	11:50:56	13.77		-0.06	0.23	
1/11/02	11:51:11	13.87		-0.06	0.15	
1/11/02	11:51:26	13.91		-0.06	0.12	
1/11/02	11:51:41	13.93	13.99 O2	-0.06	0.11	ZERO NOx
1/11/02	11:51:56	13.93		-0.06	0.1	
1/11/02	11:52:11	13.94		-0.06	0.09	
1/11/02	11:52:26	13.94		-0.06	0.09	
1/11/02	11:52:41	13.95	13.94	-0.06	0.08	0.09



EMISSION SUMMARY
 COMBUSTION TURBINE 3
 KISSIMMEE ELECTRIC AUTHORITY
 INTERCESSION CITY, FLORIDA
 1/11/02
 GAS FIRING

RUN 8

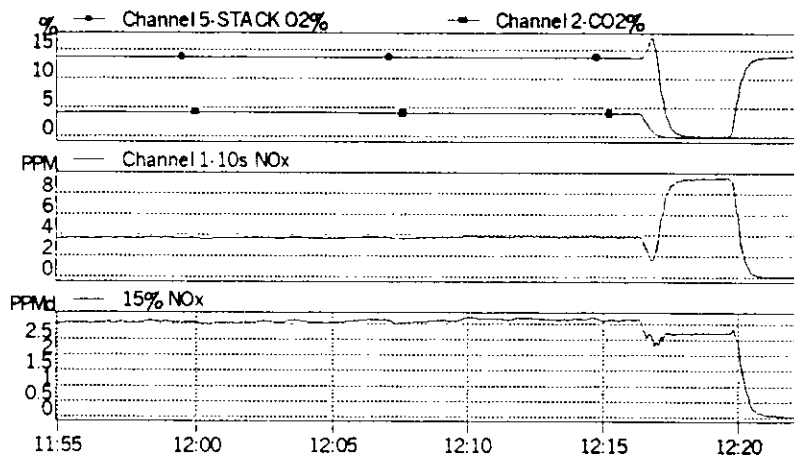
Date	Time	Channel 5-STACK O2% %	Channel 2-CO2% %	Channel 1-10s NOx PPM	15% NOx PPMd
		Average	Average	Average	Average
1/11/02	11:54:56	13.69	4.01	3.67	3.001
1/11/02	11:55:11	13.69	4.02	3.7	3.025
1/11/02	11:55:26	13.69	4.02	3.73	3.055
1/11/02	11:55:41	13.69	4.02	3.73	3.049
1/11/02	11:55:56	13.69	4.05	3.7	3.031
1/11/02	11:56:11	13.68	4.05	3.69	3.015
1/11/02	11:56:26	13.69	4.04	3.71	3.038
1/11/02	11:56:41	13.69	4.03	3.73	3.053
1/11/02	11:56:56	13.69	4.03	3.7	3.029
1/11/02	11:57:11	13.68	4.03	3.75	3.068
1/11/02	11:57:26	13.69	4.03	3.72	3.044
1/11/02	11:57:41	13.68	4.03	3.71	3.033
1/11/02	11:57:56	13.69	4.03	3.73	3.051
1/11/02	11:58:11	13.68	4.03	3.78	3.093
1/11/02	11:58:26	13.68	4.03	3.77	3.081
1/11/02	11:58:41	13.68	4.03	3.75	3.067
1/11/02	11:58:56	13.69	4.04	3.76	3.076
1/11/02	11:59:11	13.69	4.03	3.72	3.046
1/11/02	11:59:26	13.69	4.03	3.72	3.045
1/11/02	11:59:41	13.69	4.06	3.73	3.053
1/11/02	11:59:56	13.69	4.05	3.71	3.036
1/11/02	12:00:11	13.69	4.05	3.66	2.996
1/11/02	12:00:26	13.69	4.05	3.65	2.986
1/11/02	12:00:41	13.68	4.05	3.71	3.036
1/11/02	12:00:56	13.68	4.05	3.71	3.032
1/11/02	12:01:11	13.68	4.05	3.71	3.03
1/11/02	12:01:26	13.68	4.05	3.69	3.02
1/11/02	12:01:41	13.68	4.05	3.74	3.055
1/11/02	12:01:56	13.68	4.05	3.73	3.051
1/11/02	12:02:11	13.69	4.05	3.76	3.072
1/11/02	12:02:26	13.68	4.05	3.77	3.08
1/11/02	12:02:41	13.68	4.05	3.75	3.067
1/11/02	12:02:56	13.69	4.04	3.71	3.03
1/11/02	12:03:11	13.69	4.03	3.74	3.064
1/11/02	12:03:26	13.69	4.04	3.8	3.11
1/11/02	12:03:41	13.69	4.03	3.79	3.103
1/11/02	12:03:56	13.7	4.03	3.74	3.064
1/11/02	12:04:11	13.69	4.03	3.71	3.039
1/11/02	12:04:26	13.69	4.03	3.72	3.045
1/11/02	12:04:41	13.69	4.03	3.69	3.023
1/11/02	12:04:56	13.69	4.03	3.71	3.036
1/11/02	12:05:11	13.69	4.03	3.73	3.048
1/11/02	12:05:26	13.69	4.03	3.75	3.072
1/11/02	12:05:41	13.68	4.03	3.78	3.093
1/11/02	12:05:56	13.69	4.02	3.8	3.108

1/11/02	12:06:11	13.69	4.02	3.82	3.13
1/11/02	12:06:26	13.69	4.02	3.82	3.131
1/11/02	12:06:41	13.69	4.02	3.8	3.113
1/11/02	12:06:56	13.69	4.02	3.82	3.12
1/11/02	12:07:11	13.69	4.01	3.72	3.046
1/11/02	12:07:26	13.69	4.01	3.69	3.02
1/11/02	12:07:41	13.69	4.01	3.71	3.035
1/11/02	12:07:56	13.69	4.01	3.73	3.055
1/11/02	12:08:11	13.69	4.01	3.75	3.065
1/11/02	12:08:26	13.69	4.01	3.76	3.077
1/11/02	12:08:41	13.68	3.99	3.79	3.096
1/11/02	12:08:56	13.69	3.98	3.8	3.106
1/11/02	12:09:11	13.68	3.99	3.79	3.098
1/11/02	12:09:26	13.68	3.98	3.78	3.089
1/11/02	12:09:41	13.68	3.99	3.82	3.12
1/11/02	12:09:56	13.68	3.99	3.9	3.186
1/11/02	12:10:11	13.68	3.99	3.91	3.193
1/11/02	12:10:26	13.68	3.99	3.87	3.158
1/11/02	12:10:41	13.67	4	3.88	3.17
1/11/02	12:10:56	13.67	4	3.88	3.166
1/11/02	12:11:11	13.66	4	3.87	3.155
1/11/02	12:11:26	13.67	4	3.83	3.128
1/11/02	12:11:41	13.67	4.00	3.87	3.16
1/11/02	12:11:56	13.66	4	3.9	3.179
1/11/02	12:12:11	13.66	4	3.91	3.186
1/11/02	12:12:26	13.67	4	3.88	3.169
1/11/02	12:12:41	13.67	3.99	3.86	3.151
1/11/02	12:12:56	13.66	4	3.86	3.148
1/11/02	12:13:11	13.66	4	3.84	3.13
1/11/02	12:13:26	13.66	3.99	3.85	3.14
1/11/02	12:13:41	13.66	4	3.85	3.137
1/11/02	12:13:56	13.66	4.01	3.88	3.161
1/11/02	12:14:11	13.66	4.01	3.86	3.147
1/11/02	12:14:26	13.66	4.02	3.9	3.174
1/11/02	12:14:41	13.66	4.01	3.9	3.181
1/11/02	12:14:56	13.66	4.01	3.83	3.117
1/11/02	12:15:11	13.66	4.01	3.85	3.136
1/11/02	12:15:26	13.66	4.01	3.84	3.126
1/11/02	12:15:41	13.66	4.01	3.85	3.136
1/11/02	12:15:56	13.66	4	3.87	3.151

AVERAGES: 13.68 4.02 3.78 3.09

1/11/02	12:16:11	13.65	3.97	3.86	
1/11/02	12:16:26	14.12	3.19	3.3	
1/11/02	12:16:41	16.5	1.42	1.92	
1/11/02	12:16:56	13.29	0.44	3.11	
1/11/02	12:17:11	5.81	0.09	6.65	
1/11/02	12:17:26	2	-0.02	8.62	
1/11/02	12:17:41	0.61	-0.05	9.24	
1/11/02	12:17:56	0.26	-0.06	9.43	
1/11/02	12:18:11	0.15	-0.06	9.47	
1/11/02	12:18:26	0.11	-0.06	9.51	
1/11/02	12:18:41	0.09	-0.07	9.52	

1/11/02	12:18:56	0.08	ZERO O2	-0.07	9.51	9.5 NOx
1/11/02	12:19:11	0.07		-0.07	9.54	
1/11/02	12:19:26	0.07	0.07	-0.07	9.53	9.53
1/11/02	12:19:41	0.77		-0.07	9.36	
1/11/02	12:19:56	6.2		-0.07	6.33	
1/11/02	12:20:11	10.96		-0.07	2.25	
1/11/02	12:20:26	12.92		-0.07	0.72	
1/11/02	12:20:41	13.57		-0.07	0.25	
01/11/02	12:20:56	13.76		-0.07	0.13	
1/11/02	12:21:11	13.86	13.99 O2	-0.07	0.09	ZERO NOx
1/11/02	12:21:26	13.91		-0.07	0.07	
1/11/02	12:21:41	13.92		-0.07	0.06	
1/11/02	12:21:56	13.93		-0.07	0.06	
1/11/02	12:22:11	13.93	13.93	-0.07	0.05	0.06



EMISSION SUMMARY
 COMBUSTION TURBINE 3
 KISSIMMEE ELECTRIC AUTHORITY
 INTERCESSION CITY, FLORIDA
 1/11/02
 GAS FIRING

RUN 9

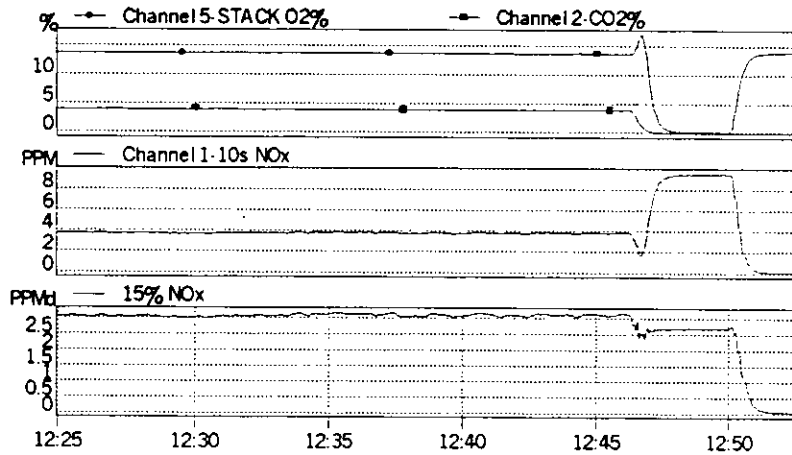
Date	Time	Channel 5-STACK O2% %	Channel 2-CO2% %	Channel 1-10s NOx PPM	15% NOx PPM
		Average	Average	Average	Average
1/11/02	12:24:56	13.68	3.94	3.73	3.046
1/11/02	12:25:11	13.68	3.94	3.74	3.06
1/11/02	12:25:26	13.68	3.94	3.75	3.068
1/11/02	12:25:41	13.68	3.94	3.74	3.059
1/11/02	12:25:56	13.69	3.94	3.72	3.046
1/11/02	12:26:11	13.68	3.94	3.7	3.023
1/11/02	12:26:26	13.69	3.96	3.76	3.072
1/11/02	12:26:41	13.68	3.96	3.75	3.068
1/11/02	12:26:56	13.68	3.97	3.72	3.043
1/11/02	12:27:11	13.68	3.97	3.74	3.055
1/11/02	12:27:26	13.68	3.96	3.73	3.049
1/11/02	12:27:41	13.68	3.94	3.73	3.045
1/11/02	12:27:56	13.68	3.94	3.74	3.06
1/11/02	12:28:11	13.68	3.94	3.76	3.077
1/11/02	12:28:26	13.68	3.94	3.74	3.054
1/11/02	12:28:41	13.68	3.94	3.7	3.025
1/11/02	12:28:56	13.68	3.94	3.69	3.01
1/11/02	12:29:11	13.68	3.94	3.73	3.044
1/11/02	12:29:26	13.67	3.94	3.7	3.025
1/11/02	12:29:41	13.67	3.94	3.68	3.006
1/11/02	12:29:56	13.67	3.95	3.71	3.029
1/11/02	12:30:11	13.68	3.96	3.71	3.032
1/11/02	12:30:26	13.68	3.96	3.66	2.993
1/11/02	12:30:41	13.68	3.97	3.71	3.032
1/11/02	12:30:56	13.67	3.97	3.75	3.057
1/11/02	12:31:11	13.68	3.96	3.73	3.045
1/11/02	12:31:26	13.68	01/03/00	3.76	3.072
1/11/02	12:31:41	13.67	3.96	3.75	3.066
1/11/02	12:31:56	13.68	3.95	3.74	3.058
1/11/02	12:32:11	13.68	3.95	3.77	3.084
1/11/02	12:32:26	13.69	3.94	3.77	3.085
1/11/02	12:32:41	13.69	3.94	3.74	3.064
1/11/02	12:32:56	13.69	3.94	3.75	3.07
1/11/02	12:33:11	13.69	3.94	3.77	3.082
1/11/02	12:33:26	13.69	3.94	3.75	3.068
1/11/02	12:33:41	13.69	3.94	3.83	3.13
1/11/02	12:33:56	13.69	3.93	3.83	3.133
1/11/02	12:34:11	13.69	3.93	3.77	3.085
1/11/02	12:34:26	13.69	3.93	3.83	3.138
1/11/02	12:34:41	13.69	3.93	3.81	3.118
1/11/02	12:34:56	13.69	3.93	3.82	3.123
1/11/02	12:35:11	13.69	3.93	3.86	3.157
1/11/02	12:35:26	13.69	3.93	3.86	3.156
1/11/02	12:35:41	13.69	3.93	3.82	3.127
1/11/02	12:35:56	13.69	3.92	3.82	3.129

1/11/02	12:36:11	13.69	3.92	3.83	3.134
1/11/02	12:36:26	13.69	3.92	3.84	3.139
1/11/02	12:36:41	13.69	3.92	3.79	3.099
1/11/02	12:36:56	13.69	3.92	3.80	3.11
1/11/02	12:37:11	13.69	3.91	3.84	3.142
1/11/02	12:37:26	13.69	3.91	3.83	3.131
1/11/02	12:37:41	13.68	3.91	3.72	3.045
1/11/02	12:37:56	13.69	3.91	3.72	3.042
1/11/02	12:38:11	13.69	3.91	3.75	3.066
1/11/02	12:38:26	13.68	3.91	3.74	3.057
1/11/02	12:38:41	13.68	3.9	3.8	3.107
1/11/02	12:38:56	13.68	3.89	3.83	3.133
1/11/02	12:39:11	13.68	3.9	3.81	3.112
1/11/02	12:39:26	13.68	3.89	3.77	3.083
1/11/02	12:39:41	13.67	3.89	3.74	3.057
1/11/02	12:39:56	13.67	3.89	3.77	3.079
1/11/02	12:40:11	13.67	3.9	3.79	3.094
1/11/02	12:40:26	13.67	3.9	3.85	3.145
1/11/02	12:40:41	13.67	3.9	3.87	3.159
1/11/02	12:40:56	13.67	3.9	3.84	3.134
1/11/02	12:41:11	13.67	3.9	3.8	3.102
1/11/02	12:41:26	13.67	3.9	3.75	3.057
1/11/02	12:41:41	13.67	3.90	3.81	3.11
1/11/02	12:41:56	13.66	3.9	3.8	3.098
1/11/02	12:42:11	13.66	3.9	3.77	3.076
1/11/02	12:42:26	13.66	3.91	3.76	3.067
1/11/02	12:42:41	13.66	3.93	3.84	3.127
1/11/02	12:42:56	13.66	3.92	3.86	3.141
1/11/02	12:43:11	13.66	3.92	3.83	3.124
01/11/02	12:43:26	13.66	3.92	3.82	3.109
1/11/02	12:43:41	13.66	3.92	3.82	3.115
1/11/02	12:43:56	13.66	3.92	3.83	3.118
1/11/02	12:44:11	13.67	3.89	3.76	3.067
1/11/02	12:44:26	13.67	3.89	3.82	3.117
1/11/02	12:44:41	13.66	3.88	3.85	3.141
1/11/02	12:44:56	13.67	3.88	3.84	3.134
1/11/02	12:45:11	13.66	3.88	3.82	3.114
1/11/02	12:45:26	13.66	3.88	3.79	3.087
1/11/02	12:45:41	13.66	3.9	3.83	3.115
1/11/02	12:45:56	13.66	3.9	3.87	3.155

AVERAGES: 13.68 3.93 3.78 3.09

1/11/02	12:46:11	13.65	3.86	3.82
1/11/02	12:46:26	14.71	2.74	2.97
1/11/02	12:46:41	16.20	1.07	1.94
1/11/02	12:46:56	9.97	0.28	4.88
1/11/02	12:47:11	3.66	0.03	7.73
1/11/02	12:47:26	1.21	-0.04	8.95
1/11/02	12:47:41	0.43	-0.06	9.29
1/11/02	12:47:56	0.2	-0.07	9.42
1/11/02	12:48:11	0.13	-0.07	9.46
1/11/02	12:48:26	0.10	-0.08	9.49
1/11/02	12:48:41	0.08	-0.08	9.48

1/11/02	12:48:56	0.07	ZERO O2	-0.08	9.49	9.5 NOx
1/11/02	12:49:11	0.07		-0.08	9.51	
1/11/02	12:49:26	0.06		-0.08	9.52	
1/11/02	12:49:41	0.06	0.06	-0.08	9.54	
1/11/02	12:49:56	0.12		-0.08	9.52	9.53
1/11/02	12:50:11	3.41		-0.08	7.86	
1/11/02	12:50:26	9.31		-0.08	3.46	
1/11/02	12:50:41	12.39		-0.08	1.23	
1/11/02	12:50:56	13.42		-0.09	0.37	
1/11/02	12:51:11	13.71		-0.09	0.16	
1/11/02	12:51:26	13.82	13.99 O2	-0.09	0.1	
1/11/02	12:51:41	13.91		-0.09	0.08	ZERO NOx
1/11/02	12:51:56	13.92		-0.09	0.07	
1/11/02	12:52:11	13.94		-0.09	0.06	
1/11/02	12:52:26	13.94		-0.09	0.05	
1/11/02	12:52:41	13.94	13.94	-0.09	0.05	0.05



APPENDIX C

QUALITY ASSURANCE

BIAS TESTS RECORD
COMBUSTION TURBINE 3
KISSIMMEE ELECTRIC AUTHORITY
INTERCESSION CITY, FLORIDA
 1/11/02

THERMOENVIRONMENTAL MODEL 10S NO_x
 RANGE: 20 PPM

RUN NUMBER	BIAS GAS VALUE	INITIAL	FINAL	BIAS % of RANGE	
				INITIAL	FINAL
1	9.5	9.63	9.57	-0.65	-0.35
1	0	-0.03	0.055	0.15	-0.275
2	9.5	9.57	9.5	-0.35	0
2	0	0.055	0.09	-0.275	-0.45
3	9.5	9.5	9.48	0	0.1
3	0	0.09	0.09	-0.45	-0.45
4	9.5	9.48	9.59	0.1	-0.45
4	0	0.09	0.12	-0.45	-0.6
5	9.5	9.59	9.47	-0.45	0.15
5	0	0.12	0.09	-0.6	-0.45
6	9.5	9.47	9.53	0.15	-0.15
6	0	0.09	0.09	-0.45	-0.45
7	9.5	9.53	9.58	-0.15	-0.4
7	0	0.09	0.09	-0.45	-0.45
8	9.5	9.58	9.53	-0.4	-0.15
8	0	0.09	0.06	-0.45	-0.3
9	9.5	9.53	9.53	-0.15	-0.15
9	0	0.06	0.05	-0.3	-0.25

BIAS TESTS RECORD
COMBUSTION TURBINE 3
KISSIMMEE ELECTRIC AUTHORITY
INTERCESSION CITY, FLORIDA
1/11/02

TELEDYNE MODEL 320P O2

RANGE: 25 %

RUN NUMBER	BIAS GAS VALUE	INITIAL	FINAL	BIAS % of RANGE	
				INITIAL	FINAL
1	13.99	14.07	14.01	-0.32	-0.08
1	0	0.11	0.1	-0.44	-0.4
2	13.99	14.01	13.94	-0.08	0.2
2	0	0.1	0.085	-0.4	-0.34
3	13.99	13.94	13.95	0.2	0.16
3	0	0.085	0.08	-0.34	-0.32
4	13.99	13.95	13.96	0.16	0.12
4	0	0.08	0.07	-0.32	-0.28
5	13.99	13.96	14.02	0.12	-0.12
5	0	0.07	0.07	-0.28	-0.28
6	13.99	14.02	14.04	-0.12	-0.2
6	0	0.07	0.065	-0.28	-0.26
7	13.99	14.04	13.94	-0.2	0.2
7	0	0.065	0.07	-0.26	-0.28
8	13.99	13.94	13.93	0.2	0.24
8	0	0.07	0.07	-0.28	-0.28
9	13.99	13.93	13.94	0.24	0.2
9	0	0.07	0.06	-0.28	-0.24

**BIAS TESTS RECORD
COMBUSTION TURBINE 3
KISSIMMEE ELECTRIC AUTHORITY
INTERCESSION CITY, FLORIDA
1/11/02**

ROSEMOUNT 880A CO2A

RANGE: 20 %

RUN NUMBER	BIAS GAS VALUE	INITIAL	FINAL	BIAS % of RANGE	
				INITIAL	FINAL
1	3.5	3.7	3.7	-1	-1
1	0	-0.02	-0.02	0.1	0.1

CONTINUOUS MONITOR Q/A
LINEARITY and DRIFT DATA
COMBUSTION TURBINE 3
KISSIMMEE ELECTRIC AUTHORITY
INTERCESSION CITY, FLORIDA
1/11/02
GAS FIRING

RELATIVE ACCURACY

NOx				O2			
TE MODEL 10S				TELEDYNE 320			
20 PPM				25			
GAS I.D.	CEM:	RANGE:		GAS I.D.	CEM:	RANGE:	
<u>GAS VALUE</u>	<u>CEM</u>	<u>DIFF.</u>	<u>% RANGE</u>	<u>GAS VALUE</u>	<u>CEM</u>	<u>DIFF.</u>	<u>% RANGE</u>
18.5	18.8	0.3	1.50	20.9	20.89	-0.01	-0.04
9.5	9.9	0.4	2.00	13.99	14.14	0.15	0.60
5.27	4.88	-0.39	-1.95	13.89	13.99	0.1	0.40
0	-0.03	-0.03	-0.15	0	0.11	0.11	0.44

SPAN DRIFTS

NOx				O2			
RUN NO.	BEGIN	END	% RANGE	RUN NO.	BEGIN	END	% RANGE
1	9.63	9.57	0.3	1	14.07	14.01	0.24
2	9.57	9.5	0.35	2	14.01	13.94	0.28
3	9.5	9.48	0.1	3	13.94	13.95	-0.04
4	9.48	9.59	-0.55	4	13.95	13.95	0
5	9.59	9.47	0.6	5	13.96	14.02	-0.24
6	9.47	9.53	-0.3	6	14.02	14.04	-0.08
7	9.53	9.58	-0.25	7	14.04	13.94	0.4
8	9.58	9.53	0.25	8	13.94	13.93	0.04
9	9.53	9.53	0	9	13.93	13.94	-0.04

ZERO DRIFTS

NOx				O2			
1	-0.03	0.055	-0.425	1	0.11	0.1	0.04
2	0.055	0.09	-0.175	2	0.1	0.085	0.06
3	0.09	0.09	0	3	0.085	0.08	0.02
4	0.09	0.12	-0.15	4	0.08	0.07	0.04
5	0.12	0.09	0.15	5	0.07	0.07	0
6	0.09	0.09	0	6	0.07	0.065	0.02
7	0.09	0.09	0	7	0.065	0.07	-0.02
8	0.09	0.06	0.15	8	0.07	0.07	0
9	0.06	0.05	0.05	9	0.07	0.06	0.04

CONTINUOUS MONITOR Q/A
 LINEARITY and DRIFT DATA
 COMBUSTION TURBINE 3
 KISSIMMEE ELECTRIC AUTHORITY
 INTERCESSION CITY, FLORIDA
 1/11/02
 GAS FIRING

RELATIVE ACCURACY

GAS I.D.		CO2	
CEM:		ROSEMOUNT 880A	
RANGE:		20 %	
<u>GAS VALUE</u>	<u>CEM</u>	<u>DIFF.</u>	<u>% RANGE</u>
15.1	14.99	-0.11	-0.55
3.5	3.7	0.2	1.00
0	-0.02	-0.02	-0.10

SPAN DRIFTS

RUN NO.	BEGIN	<u>CO2</u> END	% RANGE
1	3.7	3.7	0

ZERO DRIFTS

RUN NO.	<u>CO2</u> BEGIN	END	% RANGE
1	-0.02	-0.02	0



480 Hamilton Blvd.
 Theodore, AL 36582
 P.O. Box 190969
 Mobile, AL 36619
 Phone: (334) 653-2500
 FAX: (334) 653-2530

Certificate of Analysis: E.P.A. Protocol Gas Mixture

Cylinder No: <u>CC14645</u>	Order No: <u>450776</u>
Cylinder Pressure: <u>2000 psig</u>	Expiration Date: <u>05/15/04</u>
Certification Date: <u>05/15/01</u>	Laboratory: <u>ASG-MOBILE</u>

Reference Standard Information:

<u>Type</u>	<u>Component</u>	<u>Cyl. Number</u>	<u>Concentration</u>
NTRM 82625	CARBON DIOXIDE	CC34973	3.55%
NTRM 82659	OXYGEN	CC45577	20.11%

Instrumentation:

<u>Instrument/Model/Serial No.</u>	<u>Analytical Principle</u>
SIEMENS ULTRAMAT 5E K3-684	NDIR
SIEMENS OXYMAT 5E KE-904	PARAMAGNETIC

Analytical Methodology does not require correction for analytical interferences.

Certified Concentrations:

<u>Component</u>	<u>Concentration</u>	<u>Accuracy</u>	<u>Procedure</u>
CARBON DIOXIDE	3.504 %	+/-1%	G1
OXYGEN	13.89 %	+/-1%	G1
NITROGEN	BALANCE		

Analytical Results:

<u>1st Component:</u>		<u>CARBON DIOXIDE</u>			
1st Analysis Date: <u>05/14/01</u>					
R	<u>3.545</u>	S	<u>3.500</u>	Z	<u>0.000</u>
S	<u>3.510</u>	Z	<u>0.000</u>	R	<u>3.545</u>
Z	<u>0.000</u>	R	<u>3.545</u>	S	<u>3.500</u>
				Conc	<u>3.501 %</u>
				Conc	<u>3.511 %</u>
				Conc	<u>3.501 %</u>
				AVG:	<u>3.504 %</u>



Scott Specialty Gases

6141 EASTON ROAD, BLDG 1, PLUMSTEADVILLE, PA 18949-0310

Phone: 800-331-4953

Fax: 215-766-7226

RATA CLASS

Dual-Analyzed Calibration Standard

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory

SCOTT SPECIALTY GASES
6141 EASTON ROAD, BLDG 1
PLUMSTEADVILLE, PA 18949-0310

P.O. No.: 2219
Project No.: 01-57611-005

Customer

AIR CONSULTING & ENGRING
PO#2219
SUITE #4
2106 NW 67TH PLACE
GAINESVILLE FL 32606

ANALYTICAL INFORMATION

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

Cylinder Number: ALM002782 Certification Date: 7/27/01 Exp. Date: 7/26/2004
Cylinder Pressure***: 2000 PSIG

COMPONENT	CERTIFIED CONCENTRATION (Moles)	ANALYTICAL ACCURACY**	TRACEABILITY
CARBON DIOXIDE	15.1 %	+/- 1%	Direct NIST and NMI
OXYGEN	5.11 %	+/- 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

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMPONENT
NTRM 1800	1/01/04	H049491	18.05 %	CARBON DIOXIDE
NTRM 2658	10/01/02	ALM065041	9.930 %	OXYGEN

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
MTI/M200/170927	07/06/01	GC-TCD
MTI/M200/170927	07/24/01	GC-TCD

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: 07/27/01	Response Unit: AREA
Z1 = 0.00000	R1 = 797377.0 T1 = 669663.0
R2 = 800341.0	Z2 = 0.00000 T2 = 669299.0
Z3 = 0.00000	T3 = 670616.0 R3 = 800502.0
Avg. Concentration:	15.10 %

--

Concentration = A - Bx + Cx2 - Dx3 + Ex4
r = 0.99999 2000
Constants: A = -3.5459E-03
B = 2.2474E-05 C =
D = E =

OXYGEN

Date: 07/27/01	Response Unit: VOLTS
Z1 = 0.00000	R1 = 284360.0 T1 = 147859.0
R2 = 284443.0	Z2 = 0.00000 T2 = 147390.0
Z3 = 0.00000	T3 = 147394.0 R3 = 284007.0
Avg. Concentration:	5.110 %

--

Concentration = A + Bx + Cx2 + Dx3 + Ex4
r = 0.99999 2658
Constants: A = -3.9207E-02
B = 3.4934E-05 C =
D = E =

APPROVED BY:

R. J. LEWIS, JR.



480 Hamilton Blvd.
 Theodore, AL 36582
 P.O. Box 190969
 Mobile, AL 36619
 Phone: (334) 553-2500
 FAX: (334) 553-2530

Certificate of Analysis: E.P.A. Protocol Gas Mixture

Cylinder No. <u>CC14645</u>	Order No. <u>450776</u>
Cylinder Pressure: <u>2000 psig</u>	Expiration Date: <u>05/15/04</u>
Certification Date <u>05/15/01</u>	Laboratory: <u>ASG-MOBILE</u>

Reference Standard Information:

<u>Type</u>	<u>Component</u>	<u>Cyl. Number</u>	<u>Concentration</u>
NTRM 82625	CARBON DIOXIDE	CC34973	3.55%
NTRM 82659	OXYGEN	CC45577	20.11%

Instrumentation:

<u>Instrument/Model/Serial No.</u>	<u>Analytical Principle</u>
SIEMENS ULTRAMAT 5E K3-684	NDIR
SIEMENS OXYMAT 5E KE-904	PARAMAGNETIC

Analytical Methodology does not require correction for analytical interferences.

Certified Concentrations:

<u>Component</u>	<u>Concentration</u>	<u>Accuracy</u>	<u>Procedure</u>
CARBON DIOXIDE	3.504 %	+/-1%	G1
OXYGEN	13.89 %	+/-1%	G1
NITROGEN	BALANCE		

Analytical Results:

1st Component:

CARBON DIOXIDE

1st Analysis Date: <u>05/14/01</u>							
R	<u>3.545</u>	S	<u>3.500</u>	Z	<u>0.000</u>	Conc	<u>3.501 %</u>
S	<u>3.510</u>	Z	<u>0.000</u>	R	<u>3.545</u>	Conc	<u>3.511 %</u>
Z	<u>0.000</u>	R	<u>3.545</u>	S	<u>3.500</u>	Conc	<u>3.501 %</u>
						AVG:	<u>3.504 %</u>



5480 Hamilton Blvd.
 Theodore, AL 36582
 P.O. Box 190969
 Mobile, AL 36619
 Phone: (334) 653-2500
 FAX: (334) 653-2530

Certificate of Analysis: E.P.A. Protocol Gas Mixture

Cylinder No :	<u>CC135810</u>	Order No.	<u>468270</u>
Cylinder Pressure:	<u>2000 PSIG</u>	Expiration Date:	<u>9/4/04</u>
Certification Date	<u>9/4/01</u>	Laboratory:	<u>ASG-MOBILE</u>

Reference Standard Information:

<u>Type</u>	<u>Component</u>	<u>Cyl. Number</u>	<u>Concentration</u>
NTRM 82659	OXYGEN	CC45577	20.11%

Instrumentation:

<u>Instrument/Model/Serial No.</u>	<u>Analytical Principle</u>
SERVOMEX 244/701/742	PARAMAGNETIC

Analytical Methodology does not require correction for analytical interferences.

Certified Concentrations:

<u>Component</u>	<u>Concentration</u>	<u>Accuracy</u>	<u>Procedure</u>
OXYGEN	13.99 %	+/-1%	G1
NITROGEN	Balance		

Analytical Results:

1st Component: OXYGEN

1st Analysis Date: <u>9/4/01</u>							
R	<u>20.11</u>	S	<u>14.00</u>	Z	<u>0.000</u>	Conc	<u>14.00 %</u>
S	<u>13.99</u>	Z	<u>0.000</u>	R	<u>20.11</u>	Conc	<u>13.99 %</u>
Z	<u>0.000</u>	R	<u>20.11</u>	S	<u>13.99</u>	Conc	<u>13.99 %</u>
						AVG:	<u>13.99 %</u>

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed.

Do not use cylinder below 150 psig.

Beverly Hart

 Approved for Release

Airgas

Specialty Gases

11711 S. Alameda Street
Los Angeles, CA 90059-2130
(323) 357-6891
FAX: (323) 567-3686

Certificate of Analysis: E.P.A. Protocol Gas Mixture

Customer:	Airgas South	P.O.	450776
Cylinder No.:	CC36405	Order No.:	300623-00
Cylinder Pressure:	2000 PSIG	Expiration Date:	5/21/03
Certification Date:	5/22/01	Laboratory:	LOS ANGELES

Reference Standard Information:

Type	Component	Cyl. Number	Concentration
GMIS	Nitric Oxide	CC44615	5.34 PPM

Instrumentation:

Instrument/Model/Serial No.	Analytical Principle
Thermo Electron/10AR	Chemiluminescent

Analytical Methodology does not require correction for analytical interferences.

Certified Concentrations:

Component	Concentration	Accuracy	Procedure
Nitric Oxide	4.96 PPM	+/- 1%	G1
NOx	5.27 PPM		
Nitrogen	Balance		

Analytical Results:

1st Component:

Nitric Oxide

1st Analysis Date: 5/14/01

R	21.900	S	20.400	Z	0.000	Conc	4.974 PPM	
S	20.400	Z	0.000	R	21.900	Conc	4.974 PPM	
Z	0.000	R	21.900	S	20.400	Conc	4.974 PPM	
							AVG:	4.974 PPM

2nd Analysis Date: 5/21/01

R	22.000	S	20.400	Z	0.000	Conc	4.952 PPM	
S	20.400	Z	0.000	R	22.000	Conc	4.952 PPM	
Z	0.000	R	22.000	S	20.400	Conc	4.952 PPM	
							AVG:	4.952 PPM

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed.

Do not use cylinder below 150 psig.


Approved for Release

Airgas

Specialty Gases

5480 Hamilton Blvd.
Theodore, AL 36582

P.O. Box 190969
Mobile, AL 36619

Phone: (334) 653-2500
FAX: (334) 653-2530

Certificate of Analysis: E.P.A. Protocol Gas Mixture

Cylinder No :	<u>CC4447</u>	Order No.	<u>468270</u>
Cylinder Pressure:	<u>2000PSIG</u>	Expiration Date:	<u>8/31/03</u>
Certification Date	<u>8/31/01</u>	Laboratory:	<u>ASG-MOBILE</u>

Reference Standard Information:

Type	Component	Cyl. Number	Concentration
GMIS	NITRIC OXIDE	CC52034	99.3 ppm 1st Analysis
NTRM 01040306	NITRIC OXIDE	CC76621	96.4 ppm 2nd Analysis

Instrumentation:

<u>Instrument/Model/Serial No.</u>	<u>Analytical Principle</u>
ECOPhysics/CLD700EL/72411	Chemiluminescence

Analytical Methodology does not require correction for analytical interferences.

Certified Concentrations:

Component	Concentration	Accuracy	Procedure
NITRIC OXIDE	9.184 PPM	+/-1%	G1
NOX	3.500 PPM		
NITROGEN	Balance		

Analytical Results:

1st Component: NITRIC OXIDE

1st Analysis Date: <u>6/12/01</u>					
R	<u>99.300</u>	S	<u>9.100</u>	Z	<u>0.000</u>
S	<u>9.150</u>	Z	<u>0.000</u>	R	<u>99.300</u>
Z	<u>0.000</u>	R	<u>99.300</u>	S	<u>9.150</u>
				Conc	<u>9.100 ppm</u>
				Conc	<u>9.150 ppm</u>
				Conc	<u>9.150 ppm</u>
				AVG:	<u>9.134 ppm</u>

2nd Analysis Date: <u>8/30/01</u>					
R	<u>96.400</u>	S	<u>9.300</u>	Z	<u>0.000</u>
S	<u>9.200</u>	Z	<u>0.000</u>	R	<u>96.400</u>
Z	<u>0.000</u>	R	<u>96.400</u>	S	<u>9.200</u>
				Conc	<u>9.300 ppm</u>
				Conc	<u>9.200 ppm</u>
				Conc	<u>9.200 ppm</u>
				AVG:	<u>9.233 ppm</u>

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed

Do not use cylinder below 150 psig

Carol Stewart
Approved for Release

5480 Hamilton Blvd.
Theodore, AL 36582
P.O. Box 190969
Mobile, AL 36619
Phone: (334) 653-2500
FAX: (334) 653-2530

Certificate of Analysis: E.P.A. Protocol Gas Mixture

Cylinder No.:	<u>CC132130</u>	Order No.:	<u>463857</u>
Cylinder Pressure:	<u>2000PSIG</u>	Expiration Date:	<u>8/13/03</u>
Certification Date:	<u>8/13/01</u>	Laboratory:	<u>ASG-MOBILE</u>

Reference Standard Information:

<u>Type</u>	<u>Component</u>	<u>Cyl. Number</u>	<u>Concentration</u>
GMIS	NITRIC OXIDE	CC52034	99.3 ppm

Instrumentation:

<u>Instrument/Model/Serial No.</u>	<u>Analytical Principle</u>
ECOPhysics/CLD700EL/72411	Chemiluminescence

Analytical Methodology does not require correction for analytical interferences.

Certified Concentrations:

<u>Component</u>	<u>Concentration</u>	<u>Accuracy</u>	<u>Procedure</u>
NITRIC OXIDE	18.22 PPM	+/-1%	G1
NOX	18.50 PPM		
NITROGEN	Balance		

Analytical Results:

1st Component:

NITRIC OXIDE

1st Analysis Date: 8/6/01

R	<u>99.30</u>	S	<u>18.20</u>	Z	<u>0.000</u>	Conc	<u>18.20</u> ppm
S	<u>18.20</u>	Z	<u>0.000</u>	R	<u>99.30</u>	Conc	<u>18.20</u> ppm
Z	<u>0.000</u>	R	<u>99.30</u>	S	<u>18.20</u>	Conc	<u>18.20</u> ppm
						AVG:	<u>18.20</u> ppm

2nd Analysis Date: 8/13/01

R	<u>99.30</u>	S	<u>18.20</u>	Z	<u>0.000</u>	Conc	<u>18.20</u> ppm
S	<u>18.30</u>	Z	<u>0.000</u>	R	<u>99.30</u>	Conc	<u>18.30</u> ppm
Z	<u>0.000</u>	R	<u>99.30</u>	S	<u>18.20</u>	Conc	<u>18.20</u> ppm
						AVG:	<u>18.23</u> ppm

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed.

Do not use cylinder below 150 psig.

Carol Stewart
Approved for Release

Airgas

Specialty Gases

430 Hamilton Blvd
 Theodore, AL 36582
 P.O. Box 190969
 Mobile, AL 36619
 Phone: (334) 653-2500
 FAX: (334) 653-2530

Certificate of Analysis: E.P.A. Protocol Gas Mixture

Cylinder No.:	<u>cc127920</u>	Order No.:	<u>431496</u>
Cylinder Pressure:	<u>2000PSIA</u>	Expiration Date:	<u>2/20/03</u>
Certification Date:	<u>2/20/01</u>	Laboratory:	<u>ASG-MOBILE</u>

Reference Standard Information:

Type	Component	Cyl. Number	Concentration
NTRM81684	NITRIC OXIDE	CC66807	96.9PPM

Instrumentation:

<u>Instrument/Model/Serial No.</u>	<u>Analytical Principle</u>
ECOPhysics/CLD700EL/72411	Chemiluminescence

Analytical Methodology does not require correction for analytical interferences.

Certified Concentrations:

Component	Concentration	Accuracy	Procedure
NITROGEN DIOXIDE	23.03 PPM	+/-1%	G2
NITROGEN	Balance		

Analytical Results:

1st Component:		NITROGEN DIOXIDE					
1st Analysis Date		2/12/01					
R	<u>96.90</u>	S	<u>22.90</u>	Z	<u>0.000</u>	Conc	<u>22.90</u>
S	<u>23.00</u>	Z	<u>0.000</u>	R	<u>96.90</u>	Conc	<u>23.00</u>
Z	<u>0.000</u>	R	<u>96.90</u>	S	<u>22.90</u>	Conc	<u>22.90</u>
						AVG:	<u>22.93</u>
2nd Analysis Date		2/19/01					
R	<u>96.90</u>	S	<u>23.10</u>	Z	<u>0.000</u>	Conc	<u>23.10</u>
S	<u>23.00</u>	Z	<u>0.000</u>	R	<u>96.90</u>	Conc	<u>23.00</u>
Z	<u>0.000</u>	R	<u>96.90</u>	S	<u>23.10</u>	Conc	<u>23.10</u>
						AVG:	<u>23.13</u>

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed.

Do not use cylinder below 150 psig.

Chris Stewart
 Approved for Release

APPENDIX D
PLANT CEM DATA

Enertec NTDAHS®
Average Values Report
Generated : 01/31/02 07:09

Company: Kissimmee Utility Authority
Plant: 6075 Old Tampa Highway
City/St: Intercession City, FL 33848
Source: Combined cycle

Period Start: 01/11/02 08:14
Period End: 01/11/02 08:35
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Period Start	Average NOx_cor_3B ppm	Average O2_3B %	Average LOAD_3B MW	Average GAS_FL_3B #/S	Average DB_GAS_3B KSCFH	Average NOx_btu_3B #/M
1/11/02 8:14	3.4	13.38	178.2	20.6	33.5	0.012
1/11/02 8:15	3.3	13.38	177.9	20.5	33.5	0.012
1/11/02 8:16	3.4	13.38	177.9	20.5	33.5	0.012
1/11/02 8:17	3.4	13.38	178.1	20.5	33.5	0.012
1/11/02 8:18	3.3	13.38	177.2	20.5	33.5	0.012
1/11/02 8:19	3.3	13.38	177.5	20.5	33.5	0.012
1/11/02 8:20	3.3	13.38	178.1	20.5	33.5	0.012
1/11/02 8:21	3.3	13.37	177	20.5	33.5	0.012
1/11/02 8:22	3.3	13.37	176.2	20.5	33.5	0.012
1/11/02 8:23	3.3	13.37	176.9	20.5	33.5	0.012
1/11/02 8:24	3.4	13.38	177	20.5	33.5	0.012
1/11/02 8:25	3.4	13.37	176.8	20.5	33.4	0.012
1/11/02 8:26	3.3	13.37	176.4	20.5	33.5	0.012
1/11/02 8:27	3.3	13.38	176.7	20.5	33.5	0.012
1/11/02 8:28	3.3	13.38	176.4	20.5	33.5	0.012
1/11/02 8:29	3.3	13.38	176.4	20.5	33.4	0.012
1/11/02 8:30	3.3	13.38	176.2	20.5	33.5	0.012
1/11/02 8:31	3.3	13.38	176.1	20.4	33.5	0.012
1/11/02 8:32	3.3	13.37	176.5	20.4	33.5	0.012
1/11/02 8:33	3.4	13.38	176.1	20.4	33.5	0.012
1/11/02 8:34	3.3	13.37	176.4	20.5	33.4	0.012
1/11/02 8:35	3.3	13.37	176.1	20.4	33.4	0.012
Final Average*	3.3	13.38	176.9	20.5	33.5	0.012
Maximum*	3.4	13.38	178.2	20.6	33.5	0.012
Minimum*	3.3	13.37	176.1	20.4	33.4	0.012

*Does not include Invalid Averaging Periods (N/A)"

Enertec NTDAHS®
Average Values Report
Generated : 01/31/02 07:09

Company: Kissimmee Utility Authority
Plant: 6075 Old Tampa Highway
City/St: Intercession City, FL 33848
Source: Combined cycle

Period Start: 01/11/02 08:50
Period End: 01/11/02 09:11
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Period Start	Average NOx_cor_3B ppm	Average O2_3B %	Average LOAD_3B MW	Average GAS_FL_3B #/S	Average DB_GAS_3B KSCFH	Average NOx_btu_3B #/M
1/11/02 8:50	3.3	13.37	175.7	20.3	33.4	0.012
1/11/02 8:51	3.3	13.37	175.6	20.3	33.4	0.012
1/11/02 8:52	3.3	13.37	174.8	20.4	33.4	0.012
1/11/02 8:53	3.4	13.37	174.8	20.3	33.4	0.012
1/11/02 8:54	3.4	13.37	174.9	20.3	33.4	0.012
1/11/02 8:55	3.4	13.37	175.4	20.3	33.4	0.012
1/11/02 8:56	3.4	13.37	175.4	20.4	33.4	0.012
1/11/02 8:57	3.4	13.37	174.9	20.3	33.4	0.012
1/11/02 8:58	3.4	13.37	174.6	20.3	33.5	0.012
1/11/02 8:59	3.4	13.37	174.5	20.3	33.4	0.012
1/11/02 9:00	3.4	13.37	174	20.2	33.4	0.013
1/11/02 9:01	3.4	13.37	174.2	20.3	33.4	0.012
1/11/02 9:02	3.4	13.38	174	20.3	33.4	0.012
1/11/02 9:03	3.4	13.37	174	20.2	33.4	0.013
1/11/02 9:04	3.4	13.37	174	20.3	33.4	0.013
1/11/02 9:05	3.4	13.36	174	20.3	33.8	0.013
1/11/02 9:06	3.5	13.36	174	20.3	33.9	0.013
1/11/02 9:07	3.5	13.36	174.1	20.2	33.9	0.013
1/11/02 9:08	3.4	13.35	174	20.2	33.9	0.013
1/11/02 9:09	3.5	13.36	173.7	20.2	33.9	0.013
1/11/02 9:10	3.4	13.36	173.4	20.2	33.9	0.013
1/11/02 9:11	3.4	13.35	172.9	20.1	33.9	0.013
Final Average*	3.4	13.37	174.4	20.3	33.6	0.012
Maximum*	3.5	13.38	175.7	20.4	33.9	0.013
Minimum*	3.3	13.35	172.9	20.1	33.4	0.012

*Does not include Invalid Averaging Periods (N/A)"

Enertec NTDAHS®
Average Values Report
Generated : 01/31/02 07:10

Company: Kissimmee Utility Authority
Plant: 6075 Old Tampa Highway
City/St: Intercession City, FL 33848
Source: Combined cycle

Period Start: 01/11/02 09:22
Period End: 01/11/02 09:43
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Period Start	Average NOx_cor_; ppm	Average O2_3B %	Average LOAD_3B MW	Average GAS_FL_3; #/S	Average DB_GAS_; KSCFH	Average NOx_btu_3B #/M
1/11/02 9:22	3.2	13.35	172	20.1	33.8	0.012
1/11/02 9:23	3.2	13.36	172	20.1	33.9	0.012
1/11/02 9:24	3.1	13.35	172	20.1	33.8	0.012
1/11/02 9:25	3.1	13.35	172	20	33.8	0.012
1/11/02 9:26	3.1	13.36	172	20	33.8	0.012
1/11/02 9:27	3.1	13.36	172	20	33.8	0.012
1/11/02 9:28	3.1	13.36	172	20	33.8	0.011
1/11/02 9:29	3.1	13.36	172	20	33.8	0.012
1/11/02 9:30	3.1	13.36	171.2	20	33.8	0.011
1/11/02 9:31	3.1	13.36	170.4	20	33.8	0.012
1/11/02 9:32	3.1	13.36	170.2	20	33.8	0.011
1/11/02 9:33	3.1	13.36	169.8	19.9	33.8	0.011
1/11/02 9:34	3.1	13.36	169.8	20	33.8	0.011
1/11/02 9:35	3	13.35	169.8	19.9	33.8	0.011
1/11/02 9:36	3	13.35	169.8	20	33.9	0.011
1/11/02 9:37	3	13.35	169.8	19.9	33.8	0.011
1/11/02 9:38	3	13.35	169.8	19.9	33.8	0.011
1/11/02 9:39	3.1	13.36	169.9	19.9	33.8	0.011
1/11/02 9:40	3	13.35	169.8	19.8	33.8	0.011
1/11/02 9:41	3	13.35	169.8	19.9	33.8	0.011
1/11/02 9:42	3	13.35	169.8	19.9	33.8	0.011
1/11/02 9:43	3	13.35	169.8	20	33.8	0.011
Final Average*	3.1	13.36	170.7	20	33.8	0.011
Maximum*	3.2	13.36	172	20.1	33.9	0.012
Minimum*	3	13.35	169.8	19.8	33.8	0.011

*Does not include Invalid Averaging Periods (N/A)"

Enertec NTDAHS®
Average Values Report
Generated : 01/31/02 07:10

Company: Kissimmee Utility Authority
Plant: 6075 Old Tampa Highway
City/St: Intercession City, FL 33848
Source: Combined cycle

Period Start: 01/11/02 09:55
Period End: 01/11/02 10:16
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Period Start	Average NOx_cor_3B ppm	Average O2_3B %	Average LOAD_3B MW	Average GAS_FL_3B #/S	Average DB_GAS_3B KSCFH	Average NOx_btu_3B #/M
1/11/02 9:55	3	13.35	169.8	19.8	33.9	0.011
1/11/02 9:56	3.1	13.35	169.8	19.8	33.9	0.012
1/11/02 9:57	3.1	13.35	169.5	19.8	33.8	0.012
1/11/02 9:58	3.1	13.35	169.5	19.8	33.8	0.012
1/11/02 9:59	3	13.35	168.6	19.9	33.8	0.011
1/11/02 10:00	3.1	13.35	167.9	19.7	33.8	0.012
1/11/02 10:01	3.1	13.35	168.2	19.8	33.8	0.012
1/11/02 10:02	3.1	13.35	167.9	19.8	33.9	0.012
1/11/02 10:03	3.1	13.35	167.9	19.8	33.8	0.012
1/11/02 10:04	3.1	13.35	167.9	19.7	33.9	0.012
1/11/02 10:05	3.1	13.35	167.9	19.8	33.9	0.012
1/11/02 10:06	3.1	13.35	167.9	19.8	33.8	0.012
1/11/02 10:07	3.1	13.35	167.9	19.8	33.8	0.012
1/11/02 10:08	3	13.35	167.9	19.7	33.8	0.011
1/11/02 10:09	3	13.35	167.9	19.6	33.8	0.011
1/11/02 10:10	3.1	13.34	167.8	19.6	33.8	0.012
1/11/02 10:11	3	13.35	167.8	19.7	33.9	0.011
1/11/02 10:12	3	13.34	167.2	19.6	33.8	0.011
1/11/02 10:13	3	13.35	167.5	19.7	33.9	0.011
1/11/02 10:14	3	13.34	167.6	19.6	33.9	0.011
1/11/02 10:15	3	13.35	167.5	19.6	33.9	0.011
1/11/02 10:16	3	13.34	167.2	19.6	33.8	0.011
Final Average*	3.1	13.35	168.1	19.7	33.8	0.012
Maximum*	3.1	13.35	169.8	19.9	33.9	0.012
Minimum*	3	13.34	167.2	19.6	33.8	0.011

*Does not include Invalid Averaging Periods (N/A)"

Enertec NTAHS®
Average Values Report
Generated : 01/31/02 07:10

Company: Kissimmee Utility Authority
Plant: 6075 Old Tampa Highway
City/St: Intercession City, FL 33848
Source: Combined cycle

Period Start: 01/11/02 10:25
Period End: 01/11/02 10:46
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Period Start	Average NOx_cor_1 ppm	Average O2_3B %	Average LOAD_3B MW	Average GAS_FL_1 #/S	Average DB_GAS_1 KSCFH	Average NOx_btu_3B #/M
1/11/02 10:25	3	13.35	166.1	19.6	33.8	0.011
1/11/02 10:26	3	13.34	165.9	19.5	33.8	0.011
1/11/02 10:27	3	13.34	165.8	19.5	33.9	0.011
1/11/02 10:28	3	13.35	165.9	19.5	33.8	0.011
1/11/02 10:29	3	13.35	165.8	19.5	33.9	0.011
1/11/02 10:30	3	13.35	165.9	19.5	33.9	0.011
1/11/02 10:31	3	13.35	165.9	19.5	33.9	0.011
1/11/02 10:32	3	13.35	165.8	19.5	33.9	0.011
1/11/02 10:33	3.1	13.34	165.8	19.5	33.9	0.012
1/11/02 10:34	3	13.34	165.8	19.5	33.8	0.011
1/11/02 10:35	3	13.35	165.8	19.5	33.9	0.011
1/11/02 10:36	3	13.35	165.1	19.4	33.9	0.011
1/11/02 10:37	3	13.35	165.5	19.5	33.9	0.011
1/11/02 10:38	3	13.34	165.5	19.3	33.9	0.011
1/11/02 10:39	3	13.35	165.4	19.4	33.9	0.011
1/11/02 10:40	2.9	13.35	165	19.4	33.9	0.011
1/11/02 10:41	3	13.35	164.4	19.4	33.9	0.011
1/11/02 10:42	3	13.35	164.2	19.4	33.9	0.011
1/11/02 10:43	2.9	13.35	164.1	19.4	33.9	0.011
1/11/02 10:44	3	13.34	164.2	19.4	33.9	0.011
1/11/02 10:45	2.9	13.35	163.8	19.4	33.9	0.011
1/11/02 10:46	2.9	13.35	164.2	19.4	34	0.011
Final Average*	3	13.35	165.3	19.5	33.9	0.011
Maximum*	3.1	13.35	166.1	19.6	34	0.012
Minimum*	2.9	13.34	163.8	19.3	33.8	0.011

*Does not include Invalid Averaging Periods (N/A)"

Enertec NTDAS®
Average Values Report
Generated : 01/31/02 07:11

Company: Kissimmee Utility Authority
Plant: 6075 Old Tampa Highway
City/St: Intercession City, FL 33848
Source: Combined cycle

Period Start: 01/11/02 10:55
Period End: 01/11/02 11:16
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Period Start	Average NOx_cor_3 ppm	Average O2_3B %	Average LOAD_3B MW	Average GAS_FL_3 #/S	Average DB_GAS_ KSCFH	Average NOx_btu_3B #/M
1/11/02 10:55	3	13.34	163.8	19.4	33.8	0.011
1/11/02 10:56	3	13.34	163.8	19.4	33.8	0.011
1/11/02 10:57	3	13.34	163.9	19.3	33.8	0.011
1/11/02 10:58	2.9	13.35	163.9	19.3	33.8	0.011
1/11/02 10:59	2.9	13.35	163.9	19.3	33.8	0.011
1/11/02 11:00	2.9	13.35	163.9	19.4	33.6	0.011
1/11/02 11:01	3	13.35	163.8	19.3	33.7	0.011
1/11/02 11:02	3.2	13.35	163.8	19.3	33.7	0.012
1/11/02 11:03	3.1	13.35	163.8	19.3	33.7	0.012
1/11/02 11:04	3.2	13.35	163.7	19.3	33.7	0.012
1/11/02 11:05	3.1	13.35	163.5	19.3	33.7	0.012
1/11/02 11:06	3.2	13.35	163.2	19.3	33.6	0.012
1/11/02 11:07	3.1	13.35	162.9	19.2	33.6	0.012
1/11/02 11:08	3.2	13.35	163.1	19.3	33.6	0.012
1/11/02 11:09	3.2	13.35	162.4	19.3	33.6	0.012
1/11/02 11:10	3	13.35	162.7	19.2	33.7	0.011
1/11/02 11:11	3.1	13.35	162.3	19.2	33.8	0.012
1/11/02 11:12	3.1	13.35	163.5	19.2	33.7	0.012
1/11/02 11:13	3	13.35	163.8	19.3	33.7	0.011
1/11/02 11:14	3	13.35	163.1	19.3	33.8	0.011
1/11/02 11:15	3.1	13.34	162.4	19.2	33.8	0.012
1/11/02 11:16	3.1	13.35	162.3	19.3	33.8	0.012
Final Average'	3.1	13.35	163.3	19.3	33.7	0.012
Maximum*	3.2	13.35	163.9	19.4	33.8	0.012
Minimum*	2.9	13.34	162.3	19.2	33.6	0.011

*Does not include Invalid Averaging Periods (N/A)"

Enertec NTAHS®
Average Values Report
Generated : 01/31/02 07:11

Company: Kissimmee Utility Authority
Plant: 6075 Old Tampa Highway
City/St: Intercession City, FL 33848
Source: Combined cycle

Period Start: 01/11/02 11:25
Period End: 01/11/02 11:46
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Period Start	Average NOx_cor_3 ppm	Average O2_3B %	Average LOAD_3B MW	Average GAS_FL_3 #S	Average DB_GAS_ KSCFH	Average NOx_btu_3B #/M
1/11/02 11:25	3	13.35	161.7	19.2	33.9	0.011
1/11/02 11:26	3	13.34	161.7	19.1	34	0.011
1/11/02 11:27	3	13.35	161.7	19.1	34	0.011
1/11/02 11:28	3	13.34	161.7	19.1	33.9	0.011
1/11/02 11:29	3	13.34	161.7	19.2	34	0.011
1/11/02 11:30	3	13.33	161.7	19.1	34	0.011
1/11/02 11:31	3	13.34	161.7	19.1	34	0.011
1/11/02 11:32	3.1	13.33	161.6	19.1	34	0.011
1/11/02 11:33	3.1	13.33	161.6	19.1	34	0.011
1/11/02 11:34	3	13.34	161.7	19.2	34	0.011
1/11/02 11:35	3.1	13.33	161.7	19.1	34	0.011
1/11/02 11:36	3	13.34	161.7	19.1	34	0.011
1/11/02 11:37	3	13.34	161.7	19.1	34	0.011
1/11/02 11:38	3	13.34	161.7	19.1	34	0.011
1/11/02 11:39	3	13.34	161.7	19.1	34	0.011
1/11/02 11:40	3	13.34	161.7	19.1	34	0.011
1/11/02 11:41	3	13.34	161.7	19.1	34	0.011
1/11/02 11:42	3	13.34	161.7	19.1	34	0.011
1/11/02 11:43	3	13.34	161.6	19.1	34	0.011
1/11/02 11:44	3	13.34	161.7	19.1	34	0.011
1/11/02 11:45	3	13.34	161.7	19.1	34	0.011
1/11/02 11:46	3	13.34	161.7	19.1	34	0.011
Final Average*	3	13.34	161.7	19.1	34	0.011
Maximum*	3.1	13.35	161.7	19.2	34	0.011
Minimum*	3	13.33	161.6	19.1	33.9	0.011

*Does not include Invalid Averaging Periods (N/A)"

Enertec NTDAHS®
 Average Values Report
 Generated : 01/31/02 07:12

Company: Kissimmee Utility Authority
 Plant: 6075 Old Tampa Highway
 City/St: Intercession City, FL 33848
 Source: Combined cycle

Period Start: 01/11/02 11:55
 Period End: 01/11/02 12:16
 Validation Type: 1/1 min
 Averaging Period: 1 min
 Type: Block Avg

Period Start	Average NOx_cor_3 ppm	Average O2_3B %	Average LOAD_3B MW	Average GAS_FL_3 #/S	Average DB_GAS_ KSCFH	Average NOx_btu_3B #/M
1/11/02 11:55	3	13.34	161.7	19	34.1	0.011
1/11/02 11:56	3	13.34	161.7	19.1	34	0.011
1/11/02 11:57	3	13.34	161.7	19.1	34	0.011
1/11/02 11:58	3	13.34	161.6	19	34	0.011
1/11/02 11:59	3	13.34	161.3	19.1	34	0.011
1/11/02 12:00	3	13.35	161	19	34	0.011
1/11/02 12:01	3	13.35	160.6	19.1	34	0.011
1/11/02 12:02	3	13.35	159.7	19	34	0.011
1/11/02 12:03	3	13.35	160.8	19	34	0.011
1/11/02 12:04	3	13.34	160.3	19.1	34	0.011
1/11/02 12:05	3	13.35	161.6	19	34	0.011
1/11/02 12:06	3	13.35	160.3	19.1	34	0.011
1/11/02 12:07	3	13.35	160.9	19	34	0.011
1/11/02 12:08	3	13.35	160.6	19	34	0.011
1/11/02 12:09	3	13.35	161.6	19	34	0.011
1/11/02 12:10	3	13.35	161	18.9	34	0.011
1/11/02 12:11	3	13.35	161.5	19.1	34	0.011
1/11/02 12:12	3	13.35	161.7	19	34	0.011
1/11/02 12:13	3	13.35	161.7	19	34	0.011
1/11/02 12:14	3	13.35	161.7	19	34	0.011
1/11/02 12:15	3	13.35	161	19	34	0.011
1/11/02 12:16	3	13.35	161.6	19	33.9	0.011
Final Average*	3	13.35	161.2	19	34	0.011
Maximum*	3	13.35	161.7	19.1	34.1	0.011
Minimum*	3	13.34	159.7	18.9	33.9	0.011

*Does not include Invalid Averaging Periods (N/A)"

Enertec NTDAHS®
Average Values Report
Generated : 01/31/02 07:12

Company: Kissimmee Utility Authority
Plant: 6075 Old Tampa Highway
City/St: Intercession City, FL 33848
Source: Combined cycle

Period Start: 01/11/02 12:25
Period End: 01/11/02 12:46
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Period Start	Average NOx_cor_3B ppm	Average O2_3B %	Average LOAD_3B MW	Average GAS_FL_3B #/S	Average DB_GAS_3B KSCFH	Average NOx_btu_3B #/M
1/11/02 12:25	3	13.35	159.9	19	34	0.011
1/11/02 12:26	3	13.35	160.3	19	34	0.011
1/11/02 12:27	3	13.35	159.6	19	34	0.011
1/11/02 12:28	3	13.35	159.6	18.9	34	0.011
1/11/02 12:29	3	13.35	159.6	19	34	0.011
1/11/02 12:30	3	13.35	159.6	19	34	0.011
1/11/02 12:31	3	13.35	159.6	18.9	34	0.011
1/11/02 12:32	3	13.35	159.5	18.9	34	0.011
1/11/02 12:33	3	13.35	159.6	18.9	34	0.011
1/11/02 12:34	3	13.35	159.6	18.9	34	0.011
1/11/02 12:35	3	13.35	159.6	18.9	34	0.011
1/11/02 12:36	3	13.35	159.6	18.9	34	0.011
1/11/02 12:37	3	13.35	159.8	18.9	34	0.011
1/11/02 12:38	3	13.35	160.3	18.9	34	0.011
1/11/02 12:39	3	13.35	159.5	19	34	0.011
1/11/02 12:40	3	13.35	159.7	19	34	0.011
1/11/02 12:41	3	13.35	160.2	19	34	0.011
1/11/02 12:42	3	13.35	159.6	19	34	0.011
1/11/02 12:43	3	13.35	159.9	18.9	34	0.011
1/11/02 12:44	3	13.35	160.2	19	34	0.011
1/11/02 12:45	3	13.35	159.5	19	33.9	0.011
1/11/02 12:46	3	13.35	159.6	19	34	0.011
Final Average*	3	13.35	159.7	19	34	0.011
Maximum*	3	13.35	160.3	19	34	0.011
Minimum*	3	13.35	159.5	18.9	33.9	0.011

*Does not include Invalid Averaging Periods (NA")"

APPENDIX E

PROJECT PARTICIPANTS

PROJECT PARTICIPANTS

Air Consulting and Engineering, Inc.

Stephen L. Neck, P.E.
Field Testing

John E. Simon
Field Testing

Peter F. Burnette
Report Preparation

Gloria Gagich
Document Production

Kissimmee Utility Authority

Larry Mattern
Test Coordinator

FDEP

Garry Kuberski
Observer