C.E.M. SOLUTIONS, INC.

7990 W. Gulf-to-Lake Hwy. • Crystal River, Florida 34429 • (352) 564-0441 • Fax: (352) 564-0302

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PROGRESS ENERGY
DeSoto County Energy Complex

Mr. Matthew Lydon
Progress Energy
Environmental Services Department
263 13th Avenue South
St. Petersburg, Fl 33701

RE: DeSoto Unit 1 Compliance Test Report

Dear Mr. Lydon,

Thank you for the opportunity to be of service to Progress Energy.

Enclosed is one original and two copies of C.E.M. Solutions, Inc. revised report number 06262003, detailing the compliance test results for Unit 1 combustion turbine located at DeSoto County Generating Complex in Arcadia, Florida.

Should any comments or changes need to be made, please contact me at 352-564-0441 or 352-302-4019.

Respectfully,

Jeremy A. Johnson
President
C.E.M. Solutions, Inc.

Enclosure

CC:
Mr. Steve Passen, DeSoto County Generating Complex

COPY

C.E.M. SOLUTIONS, INC.

Source Test Compliance Report

Completed for:

DeSoto County Generating Company
DeSoto County Energy Park
Unit 1

C.E.M. Solutions, Inc. Report Number 06262003

7990 W. Gulf-to-Lake Hwy. • Crystal River, Florida 34429 • (352) 564-0441 • Fax: (352) 564-0302

Source Test Compliance Report

DeSoto County Generating Company, LLC
Arcadia, Florida

C.E.M. Solutions Project No. 1895

June 24, 2003

Prepared by:

Jeremy A. Johnson

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C.E.M. Solutions, Inc.
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Project Background

Name of Source Owner:	DeSoto County Generating Company, LLC
Address of Owner:	3800 Roan Street Arcadia FL 34266
Emissions Unit I.D. Number:	-001
Facility I.D. Number:	0270016
Location of Source:	DeSoto County, Florida
Type of Operation:	Electric Power Production
Tests Performed:	NOX and Oxygen: USEPA Method 20 Carbon Monoxide: USEPA Method 10 VOC: USEPA Method 25A Opacity: USEPA Method 9 Sulfur Dioxide: USEPA Method 19/Fuel Analysis Flow Rate and Mass Emissions- USEPA Method 19
Test Supervisor:	Mr. Jeremy A. Johnson
Date(s) Tests Conducted:	June 17th and 18th, 2003
Site Test Coordinator:	Mr. David Fernandes
State Regulatory Observers:	No Attendees

C.E.M. Solutions, Inc Testing Personnel

Project Field Manager:	Mr. Jeremy A. Johnson
Test Personnel:	Mr. Michael Pinnell Mr. Warren Davidson, Jr.

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1.0 Introduction

DeSoto County Generating Company, LLC commissioned C.E.M. Solutions, Inc. to perform source emissions testing on Unit 1 stationary combustion turbine located at it's facility in Arcadia, Florida. In accordance with permit condition A.22, initial compliance tests were performed due to "like kind" replacement of two combustors on Unit 1 combustion turbine.

The test program was conducted in order to evaluate the compliance status of Unit 1's exhaust in respect to the United States Environmental Protection Agency (USEPA) New Source Performance Standards (Title 40 of the Code of Federal Regulations, Part 60, Subpart GG) and the Florida Department of Environmental Protection's (FDEP's) permit number 0270016-003-AV. The test program and results are presented and discussed in this report.

Mr. David Fernandes of DeSoto County Generating Company coordinated plant operations throughout the test program. All testing was conducted in accordance with test methods promulgated by the USEPA.

2.0 Facility Description

The DeSoto County Generating facility consists of two, dual-fuel, nominal 170 megawatt (MW) General Electric model PG7241FA combustion turbine-electrical generators with evaporative inlet coolers, and two 75-foot exhaust stacks. Each unit can operate in simple-cycle mode and intermittent duty mode.

2.1 Process Equipment

Primary fuel for Unit 1 is pipeline natural gas with Number 2 fuel oil as a back-up fuel. NO_X emissions are controlled utilizing Dry Low NO_X (DLN-2.6) combustors while firing on pipeline natural gas. Water injection is implemented while firing fuel oil for control of NO_X emissions.

The turbine exhausts through a 23 feet ID stack at approximately 75 feet above grade.

2.2 Regulatory Requirements

The facility is under regulatory requirement established in Title 40 of the Code of Federal Regulations, Part 60, Subpart GG and FDEP Initial Title V Air Operating Permit number 0270016-003-AV. Under permit condition A.22, Initial compliance tests are conducted after any modification of air pollution control equipment such as change or tuning of combustors. The permit requires the facility to determine emissions levels of Carbon Monoxide (CO), Oxides of Nitrogen Oxide (NO_X), Sulfur Dioxide (SO_2), Oxygen (O_2), Volatile Organic Concentrations (VOC), and Opacity while firing natural gas and No. 2 fuel oil separately.

Table 1 is a summary of the emissions limits and required technology. Values for NOX are corrected to 15% O_2 on a dry basis. All pounds per hour (lb/hr) values are at ISO conditions.

Table 1: Emission Limits Summary
DeSoto County Generating Company, LLC
Desoto County Energy Park

Pollutant	Control Technology	Emission Limit
Visual Emissions	Pipeline Natural Gas Good Combustion	10 percent opacity (Gas or Oil)
VOC	As Above	1.4 ppmvw (Gas), 2.8 lb/hr 7 ppmvw (Oil), 16.2 lb/hr
CO	As Above	12 ppmvd (Gas), 42.5 lb/hr 20 ppmvd (Oil), 71.4 lb/hr
SO_2 and Sulfur Acid Mist	Pipeline Natural Gas	1 gr S/100ft^3 (in Gas) 5 lb/hr
	Low Sulfur Fuel Oil	0.05% S by weight (in Oil), 98.7 lb/hr
NO_X	Dry Low NO_X combustors for Natural Gas	9 ppmvd (Gas), 64.1 lb/hr
	Wet injection and limited Fuel Oil usage	42 ppmvd (Oil), 351.0 lb/hr

3.0 Test Program

Emissions tests were completed on Unit 1 at DeSoto County Energy Park to determine the compliance status of the dual-fuel turbine on June 17th and 18th, 2003.

CO, VOC, and Opacity testing were completed on Unit 1 while operating at peak load while firing natural gas and No. 2 Fuel Oil separately. Three runs consisting of 60 minutes of data for VOC and CO were completed. A total of two (one hour per fuel) Opacity runs were performed.

Testing for NO was performed at a total of four turbine load levels (50, 70, 85, and 100 percent of base load capacity) for each fuel. Triplicate test runs were completed for each fuel at each load level.

SO_2 emissions were calculated from fuel analysis and fuel flow rates for each operating fuel while the unit was operating at base load.

Natural gas fuel heat and sulfur content were compiled from daily reports provided by Florida Gas Transmission Company (FGT). Number 2 fuel oil analyses were performed by Intertek Testing Services in accordance with 40CFR, Part 60, Appendix A-7, Method 19, Section 12.5.2.2. A fuel oil sample was taken June 8, 2003 as a running composite sample. Fuel analysis reports are located in Appendix B.

Turbine operating data was collected and provided by facility personnel during the entire test program. Data provided include:

- Unit Generation (MW)
- Combustor inlet air temperature
- Combustor inlet air pressure
- Ambient air relative humidity
- Water injection rate (while firing oil)
- Fuel type
- Fuel flow rate
- Heat input rate

Unit 1 operating data can be viewed in Appendix A.

4.0 Test Methods

Test methods used during the test program were performed in accordance with USEPA promulgated methods. This section reviews the test methods utilized for each pollutant, as well as quality assurance, sample point locations, and run durations. Table 2 contains the summary of USEPA test methods.

Table 2: Summary of USEPA Test Methods
DeSoto County Energy Park, Unit 1
Arcadia, FL

Pollutant	USEPA Test Method
NO_X, O_2	20
CO	10
VOC	25A
Opacity	9
SO_2	19

4.1 Instrument Analyzer Test Methods

NO_X, CO, and VOC emissions were determined utilizing USEPA instrument analyzer Methods 20, 10, and 25A, respectively. All analyzer data was collected by a Windows compatible data logging program at 15 second intervals and compiled into one minute averages. The gaseous sampling system flow diagram is located in Figure 1. Reference method (RM) test run data can be viewed in Appendix C.

4.1.1 Method 20

NO_X and O_2 emissions were determined utilizing USEPA Method 20, adhering to 40CFR60, Subpart GG specifications. Thermo Environmental Instruments model 42CHL and Servomex model 1440 gas analyzers were used to determine NO_X and O_2 concentrations, respectively. As required by Method 20, a 48 point O_2 traverse was conducted at the lowest operating load for both fuels prior to performing compliance test runs. Traverse points were located in accordance with USEPA Method 1. Eight points with the lowest O_2 concentrations were chosen to complete each test run. Please refer to Appendix D for O_2 traverse field data.

4.1.2 Method 10 (CO)

USEPA Method 10 was used to determine levels of CO emissions. A Thermo Environmental Instruments, Model 48C analyzer meeting the performance specifications of Method 10 was used for CO gas analysis.

4.1.3 Method 25A (VOC)

VOC emissions were determined utilizing USEPA Method 25A. A California Analytical Instruments high temperature flame ionization analyzer meeting Method 25A requirements was used to determine VOC concentrations.

4.1.4 Quality Assurance/Quality Control

Prior to testing, each analyzer was calibrated to zero and upscale calibration gas. Each analyzer was challenged at three separate calibration gas levels within each instruments span as required by the applicable test method. Table 3 contains the reference method's calibration gas concentrations and instrument spans. Appendix E contains calibration gas Certificates of Analysis (COA). Tests were conducted to determine each analyzer's response time. The NO_2 to NO converter was tested to determine conversion efficiency. Following each test run, each analyzer was tested for calibration drift. Quality assurance/quality control documents are located in Appendix F.

4.1.5 Sample Point Locations

The Method 20 O_2 traverse revealed no significant stratification in unit 1's exhaust stack, therefore, in accordance with Method 20 specifications, eight points (7.9, 10.5, 13.2, 16.1, 19.4, 23.0, 27.2, and 32.3 percent from the stack inside wall) located in the Southeast test port were used to complete the test runs.

4.1.6 Test Run Durations

For each fuel, test runs at 50, 70, and 85 percent of load were conduct at the test points specified in 4.1.5 for three minutes per point, totaling 24 minutes of collected data for NO_X and O_2.

Since the unit 1 CEMS Relative Accuracy Test Audit (RATA) was performed concurrently with compliance testing at base load while firing natural gas, each of the three test runs are comprised of three, 21 minute, RATA test runs, for a total of 63 minutes of NO_X, O_2, CO, and VOC data. A total of three, 63 minute, test runs were completed.

NO_X, O_2, CO, and VOC data was collected while firing number 2 fuel oil at base load for five minutes per test point, for a total of 60 minutes per test run. Three complete test runs were performed.

4.2 Method 9 (Opacity)

Opacity observations were performed by a FDEP certified visual emissions reader. Readings were taken at 15 seconds intervals and reduced into six minute averages as required by the applicable EPA standard. Opacity field data is located in Appendix G.

4.3 Method 19 (SO_2)

SO_2 emissions data were calculated from fuel flow rates and fuel analysis performed in accordance with 40CFR75, Appendix D and 40CFR60, Method 19.

Figure 1: Gas Analyzer System Flow Diagram
DeSoto County Energy Park
Unit 1 Compliance

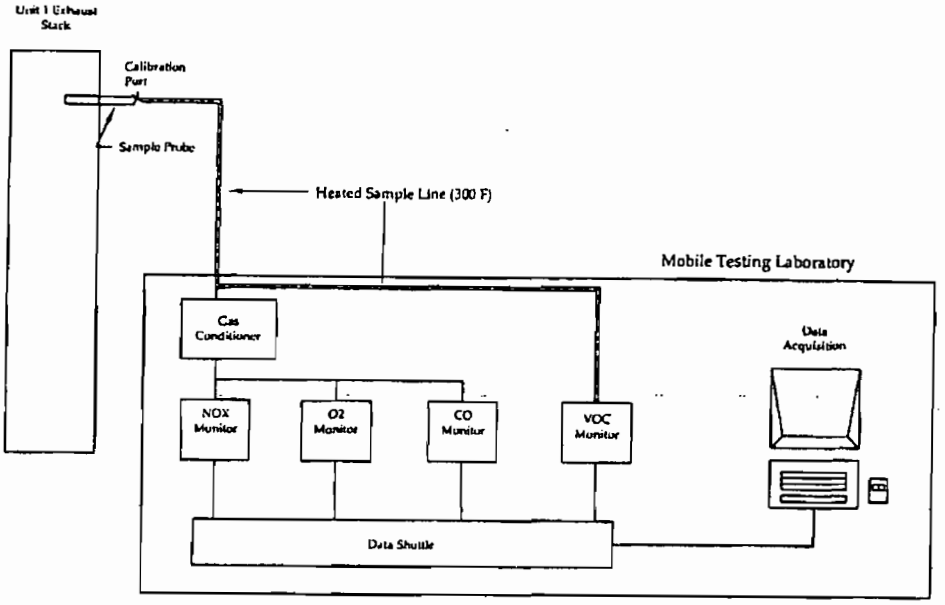

Table 3: Reference Method Calibration Gases
DeSoto County Energy Park, Unit 1
Arcadia, FL

Analyzer (Parameter)	Serial Number	Instrument Span (range)	Calibration Gases[a]	Calibration Gas percent of Span
TEI NO_X	42CHL-74122-375	20 ppm	4.7 ppm	23.5 %
			9.8 ppm	49.0 %
			16.6 ppm	83.0 %
		150 ppm	39.3 ppm	26.2 %
			73.5 ppm	49.0 %
			128.0 ppm	85.3 %
Servomex O_2	01415D/3379	25 %	13.0 %	52.0 %
			20.9 %	83.6 %
TEI CO	48C-74094-375	50 ppm	11.8 ppm	23.6 %
			23.0 ppm	46.0 %
			45.9 ppm	91.8 %
CAI VOC	4M01003	10 ppm (as propane)	3.0 ppm	30.0 %
			5.0 ppm	50.0 %
			8.5 ppm	85.0 %

[a] NO_X, O_2, and CO concentrations are in a balance of purified nitrogen (N_2); THC is in a balance of purified air. NO_X, O_2, and CO analyzers were zeroed with ultra high purity nitrogen; THC was zeroed with purified air.

5.0 Test Results

The following presents the test program results. Supporting data are located in Appendix C.

5.1 Unit 1 Emissions Firing Natural Gas

NO_X, CO, THC, SO_2, and Opacity emissions exhausted from Unit 1 combustion turbine while operating on natural gas at the four separate operating ranges (50, 70, 85, and 100% of capacity) are summarized in tables 4, 5, 6, and 7, respectively.

The highest NO_X emissions average, corrected to 15% O_2, of the four load ranges was 6.7 ppm@15% O_2, passing the emissions limit of 9 ppm@15% O_2. NOX mass emissions average, in pound per hour, at 100% capacity was 37.9 Lbs/Hr, passing the permitted emissions limit of 64.1 Lbs/Hr.

CO emissions average, in dry parts per million, at 100% capacity was 1.6 ppmvd, passing the emissions limit of 12 ppmvd. CO mass emissions average, in pounds per hour, at 100% capacity was 4.5 Lbs/Hr, passing the permitted emissions limit of 42.5 Lbs/Hr.

THC emissions average, in dry parts per million, was below detectable limit, therefore, passing the emissions limit of 1.4 ppmvw. THC mass emissions average, in pounds per hour, was also below detectable limit, passing the permitted emissions limit of 2.8 Lbs/Hr.

Natural Gas sulfur content during testing was 0.1 grains per 100 standard cubic feet, below the permit limit of 1 grains per 100 standard cubic feet. The calculated SO_2 mass emissions average, in pounds per hour, was 0.4 Lbs/Hr, passing the permitted emissions limit of 5 Lbs/Hr.

Visible emissions, in percent opacity, at 100% capacity was 0.0%, passing the permitted emissions limit of 10%

5.2 Unit 1 Firing Fuel Oil

NO_X, CO, THC, SO_2, and Opacity emissions exhausted from Unit 1 combustion turbine while operating on fuel oil at the four separate operating ranges (50, 70, 85, and 100% of capacity) are summarized in tables 8, 9, 10, and 11, respectively.

The highest NO_X emissions average, corrected to 15% O_2, of the four load ranges was 37.2 ppm@15% O_2, passing the emissions limit of 42 ppm@15% O_2. NO_X mass emissions average, in pound per hour, at 100% capacity was 260.5 Lbs/Hr, passing the permitted emissions limit of 351.0 Lbs/Hr.

CO emissions average, in dry parts per million, at 100% capacity was 0.3 ppmvd, passing the emissions limit of 20 ppmvd. CO mass emissions average, in pounds per hour, at 100% capacity was 1.0 Lbs/Hr, passing the permitted emissions limit of 71.4 Lbs/Hr.

THC emissions average, in wet parts per million, was below detectable limit, therefore, passing the emissions limit of 7 ppmvw. THC mass emissions average, in pounds per hour, was also below detectable limit, passing the permitted emissions limit of 16.2 Lbs/Hr.

Fuel Oil sulfur content during testing was .03 percent, below the permit limit of 0.05 percent. The calculated SO_2 mass emissions average, in pounds per hour, was 63.7 Lbs/Hr, passing the permitted emissions limit of 98.7 Lbs/Hr.

Visible emissions, in percent opacity, at 100% capacity was 0.0%, passing the permitted emissions limit of 10%

Table 4: Unit 1 Gas Compliance, 50% Load Test Results

Run Number	Units	Run 1	Run 2	Run 3	Average	Limit
Run Date	2003	June 17	June 17	June 17		
Start Time		9:30:15	10:06:15	10:39:00		
End Time		9:54:15	10:30:15	10:45:00		
Unit Load	MW	85.0	85.0	85.0		
NO_X	ppm@15% O_2	6.6	6.5	6.7	6.6	9

Table 5: Unit 1 Gas Compliance, 70% Load Test Results

Run Number	Units	Run 4	Run 5	Run 6	Average	Limit
Run Date	2003	June 17	June 17	June 17		
Start Time		11:17:15	12:01:15	12:34:15		
End Time		11:31:15	12:25:15	12:58:15		
Unit Load	MW	115.0	115.0	115.0		
NO_X	ppm@15% O_2	6.6	6.5	6.5	6.5	9

Table 6: Unit 1 Gas Compliance, 85% Load Test Results

Run Number	Units	Run 7	Run 8	Run 9	Average	Limit
Run Date	2003	June 17	June 17	June 17		
Start Time		13:12:15	14:01:15	14:34:45		
End Time		13:36:15	14:25:15	14:58:45		
Unit Load	MW	140.0	140.0	140.0		
NO_X	ppm@15% O_2	6.1	6.4	6.5	6.3	9

Table 7: Unit 1 Gas Compliance, 100% Load Test Results

Run Number	Units	Run 1	Run 2	Run 3	Average	Limit
Run Date	2003	June 17	June 17	June 17		
Start Time		15:01:00	16:47:00	18:28:00		
End Time		16:29:00	18:16:00	19:58:00		
Unit Load	MW	160.0	160.0	160.0		
Fuel Flow	1000 Cu-Ft/Hr	1597.5	1599.6	1603.8 > 1600	> 1517 MM Btu/hr	
Fuel Heat Value	Btu/Cu-Ft	948.0	948.0	948.0 > 948		
O_2	%, dry	13.44	13.60	13.61		
NO_X	ppmvd	8.33	8.27	8.30		
NO_X	ppm@15% O_2	6.6	6.7	6.7	6.7	9
NO_X	Lbs/mmBtu	0.0242	0.0246	0.0247		
NO_X	Lbs/Hr[a]	38.91	37.29	37.53	37.9	64.1
CO	ppmvd	1.6	1.6	1.6	1.6	12
CO	Lbs/mmBtu	0.0030	0.0029	0.0029		
CO	Lbs/Hr[a]	4.57	4.38	4.45	4.5	42.5
THC	ppmvd	-0.1	0.2	-0.6	-0.2	1.4
THC	Lbs/mmBtu	-0.0002	0.0004	-0.0024		
THC	Lbs/Hr[a]	-0.26	0.66	-3.69	-1.1	2.8
Sulfur Content	Gr/100 Cu-Ft	0.083	0.083	0.083	0.1	1
SO_2	Lbs/Hr[b]	0.38	0.38	0.38	0.4	5
Opacity[c]	%	0.0	0.0	0.0	0.0	10

[a] Lbs/Hr = Pollutant Emission Rate (Lbs/mmBtu) x (Fuel Feed Rate (1000 Cu-Ft/Hr) x Fuel LHV (Btu/Cu-Ft)/1000)
[b] Lbs/Hr = (2.0/7000) x Fuel Flow (100 Cu-Ft/Hr) x Fuel Sulfur Content (gr/100 Cu-Ft)
[c] Opacity is the surrogate for particulate emissions per permit condition A.16

Table 8: Unit 1 Oil Compliance, 50% Load Test Results

Run Number	Units	Run 1	Run 2	Run 3	Average	Limit
Run Date	2003	June 18	June 18	June 18		
Start Time		08:54:00	09:28:00	10:04:00		
End Time		09:18:00	09:52:00	10:28:00		
Unit Load	MW	84.0	84.0	84.0		
NO_X	ppm@15% O_2	37.3	37.0	36.9	37.1	42

Table 9: Unit 1 Oil Compliance, 70% Load Test Results

Run Number	Units	Run 4	Run 5	Run 6	Average	Limit
Run Date	2003	June 18	June 18	June 18		
Start Time		10:42:00	11:18:00	11:56:00		
End Time		11:06:00	11:42:00	12:20:00		
Unit Load	MW	117.0	117.0	117.0		
NO_X	ppm@15% O_2	35.8	36.5	36.5	36.3	42

Table 10: Unit 1 Oil Compliance, 85% Load Test Results

Run Number	Units	Run 7	Run 8	Run 9	Average	Limit
Run Date	2003	June 18	June 18	June 18		
Start Time		12:59:00	13:33:00	14:33:00		
End Time		13:23:00	13:57:00	14:57:00		
Unit Load	MW	142.0	142.0	142.0		
NO_X	ppm@15% O_2	36.7	36.4	36.5	36.5	42

Table 11: Unit 1 Oil Compliance, 100% Load Test Results

Run Number	Units	Run 1	Run 2	Run 3	Average	Limit
Run Date	2003	June 18	June 18	June 18		
Start Time		15:46:00	17:02:00	18:16:00		
End Time		16:46:00	18:02:00	19:16:00		
Unit Load	MW	169.0	169.0	169.0		
Fuel Flow	Lbs/Hr	92751.0	92449.0	92449.0		
Fuel Heat Value	Btu/Lb	18234	18234	18234		
O_2	%, dry	12.50	12.50	12.50		
NO_X	ppmvd	53.3	53.2	52.5		
NO_X	ppm@15% O_2	37.4	37.4	36.9	37.2	42
NO_X	Lbs/mmBtu	0.1460	0.1450	0.1430		
NO_X	Lbs/Hr[a]	263.48	260.82	257.23	260.5	351.0
CO	ppmvd	0.4	0.3	0.3	0.3	20
CO	Lbs/mmBtu	0.0006	0.0005	0.0005		
CO	Lbs/Hr[a]	1.08	0.90	0.90	1.0	71.4
THC	ppmvw	-0.1	-0.2	-0.2	-0.2	7
THC	Lbs/mmBtu	-0.0003	-0.0005	-0.0005		
THC	Lbs/Hr[a]	-0.54	-0.90	-0.90	-0.8	16.2
Sulfur Content	%	0.0344	0.0344	0.0344	0.03	0.05
SO_2	Lbs/Hr[b]	63.81	63.60	63.60	63.7	98.7
Opacity[c]	%	0.0	0.0	0.0	0.0	10

[a] Lbs/Hr = Pollutant Emission Rate (Lbs/mmBtu) x (Fuel Feed Rate (Lbs/Hr) x Fuel LHV (Btu/Lb)/1000000)
[b] Lbs/Hr = 2.0 x Fuel Flow Rate (Lbs/Hr) x (Fuel Sulfur Content (%)/100)
[c] Opacity is the surrogate for particulate emissions per permit condition A.16

Appendix A

Unit 1 Operating Data

Gas

Date: 06/17/2003

* = replaced data, GAS units=100scfh, OIL units=lb/hr

TM	FUEL	FUEL FLOW	HEAT INPUT mmBtu	SO2 EM lbs/hr	CO2 EM ton/hr	GGEN Mw
5	GAS	4860.0	510.2	0.30612	30.20	59.40
6	GAS	10692.0	1122.4	0.67344	66.50	84.70
7	GAS	10773.0	1130.9	0.67854	67.00	85.50
8	GAS	10773.0	1130.9	0.67854	67.00	85.40
9	GAS	10773.0	1130.9	0.67854	67.00	85.40
10	GAS	12231.0	1284.0	0.77040	76.00	108.50
11	GAS	12636.0	1326.5	0.79590	78.50	115.00
12	GAS	14337.0	1505.1	0.90306	89.10	138.60
13	GAS	14499.0	1522.1	0.91326	90.10	140.50
14	GAS	15795.0	1658.2	0.99492	98.20	157.80
15	GAS	15957.0	1675.2	1.00512	99.20	159.80
16	GAS	15957.0	1675.2	1.00512	99.20	159.70
17	GAS	15957.0	1675.2	1.00512	99.20	160.10
18	GAS	16038.0	1683.7	1.01022	99.70	160.50
19	GAS	16038.0	1683.7	1.01022	99.70	160.40
20	GAS	2430.0	255.1	0.15306	15.10	67.40

Daily totals:	FUEL FLOW	HEAT INPUT mmBtu	SO2 EM lbs/day	CO2 EM ton/day
GAS	199746.0	20969.3	12.58158	1241.70

Generation Daily Total: 1928.70 Mw

Fuels Data:	HEAT CONTENT Btu/flow unit	SULFUR CONTENT oil-% gas-lb/mmBtu	CARBON CONTENT %	DENSITY
GAS	104980.0	0.0006	75.00	

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Progress Ventures - DeSoto County Generating Co., LLC
Daily Generation Report

Site	HST_DST
Interval	1h

Start Time	17-Jun-03 00:01:00
End Time	18-Jun-03 00:01:00

*NOTE Time change is needed to update PI Data

	UNIT 1	Hours Scheduled =		5.90	UNIT 2	Hours Scheduled =		0.00
		Base Hrs Served =		5.90		Base Hrs Served =		0.00
	MWH Accumulator	Hourly MWH	GAS DT's	OIL Gallons	MWH Accumulator	Hourly MWH	GAS DT's	OIL Gallons
0100	[redacted]	0	0	0	[redacted]	0	0	0
0200	[redacted]	0	0	0	[redacted]	0	0	0
0300	[redacted]	0	0	0	[redacted]	0	0	0
0400	[redacted]	0	0	0	[redacted]	0	0	0
0500	[redacted]	0	0	0	[redacted]	0	0	0
0600	[redacted]	0	0	0	[redacted]	0	0	0
0700	[redacted]	33	506	0	[redacted]	0	0	0
0800	[redacted]	85	1073	0	[redacted]	0	0	0
0900	[redacted]	85	1082	0	[redacted]	0	0	0
1000	[redacted]	85	1036	0	[redacted]	0	0	0
1100	[redacted]	85	1107	0	[redacted]	0	0	0
1200	[redacted]	107	1230	0	[redacted]	0	0	0
1300	[redacted]	114	1273	0	[redacted]	0	0	0
1400	[redacted]	136	1446	0	[redacted]	0	0	0
1500	[redacted]	140	1453	0	[redacted]	0	0	0
1600	[redacted]	156	1591	0	[redacted]	0	0	0
1700	[redacted]	158	1603	0	[redacted]	0	0	0
1800	[redacted]	158	1599	0	[redacted]	0	0	0
1900	[redacted]	158	1603	0	[redacted]	0	0	0
2000	[redacted]	158	1609	0	[redacted]	0	0	0
2100	[redacted]	157	1608	0	[redacted]	0	0	0
2200	[redacted]	21	212	0	[redacted]	0	0	0
2300	[redacted]	0	0	0	[redacted]	0	0	0
2400	[redacted]	0	0	0	[redacted]	0	0	0
Total Generation	[redacted]				[redacted]			
Oil Used (gallons)		0				0		
Gas Used (DT's)		20033				0		
Hours on Grid		14:43				0:00		
Available Hours		24				24		
Unavailable Hours		0				0		

COMMENTS:
Unit # 1&2 scheduled run orders cancelled.
#1 unit conducted initial and RATA emissions testing on gas

DAY SHIFT:
ON CALL DUTY:
DATE:

Synchronized to Grid Times	Unit One	Unit Two
On Line	6:30	0:00
Off Line	21:13	0:00
Time h:mm	14:43	0:00
Baseload	15:06	0:00
Off Base	21:00	0:00
Time h:mm	5:54	0:00
On Line	na	na
Off Line	na	na
Time h:mm	0:00	0:00
Baseload	0:00	0:00
Off Base	0:00	0:00
Time h:mm	0:00	0:00

Fired Starts	Unit One	Unit Two
Ending	179	182
Beginning	178	182
Difference	1	0

Fired Hours on Gas	Unit One	Unit Two
Ending	902.40	875.90
Beginning	887.70	875.90
Difference	14.70	0.00

Fired Hours on Fuel Oil	Unit One	Unit Two
Ending	391.40	358.70
Beginning	391.32	358.70
Difference	0.08	0.00

Power Generation (MWH)	Unit One	Unit Two
Ending	[redacted]	[redacted]
Beginning	[redacted]	[redacted]
Total	[redacted]	[redacted]

Natural Gas Usage - Deca-Therms	Unit One	Unit Two
Ending	127642	96459
Beginning	107610	96459
Total	20033	0

Fuel Oil Usage - Gallons	Unit One	Unit Two
Ending	360549.25	324563.25
Beginning	360549.25	324563.25
Total	0	0

MIDNIGHT RTU READINGS (MWH)	AUX USED	UNIT OUTPUT
Ending	0	0
Beginning	0	0
Difference	0	0

Fuel Oil & Demin Water on Site	Tank	Level (ft)	Multiplier	Gallons
	Fuel Oil Tank A	17.58	49,016.00	861,701
	Fuel Oil Delivered			112,879
	Demin Tank A	26.50	49,728.00	1,317,792
	Raw Water Tank	26.58	17,124.00	455,156

Ecolochem Makeup	Trailer A	Trailer B	Trailer C
Ending			
Beginning			
Difference	-	-	-

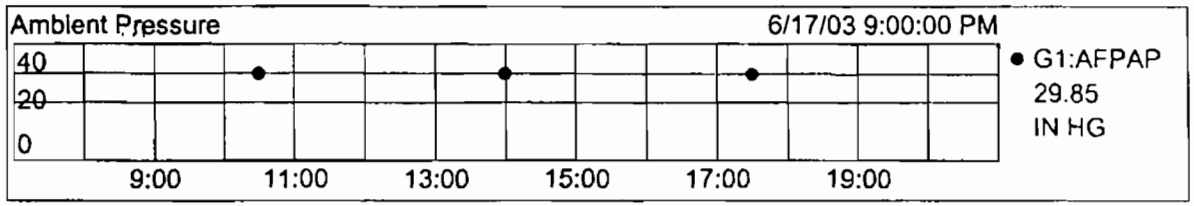
Fuel Btu Rating	
Fuel oil Btu/Gal.	139125
Gas Btu/cu. Ft.	1036

Interchange Transaction Data	Unit One	Unit Two
GCA		
PSE		
Tag Code		
LCA		
	Unit One	Unit Two
GCA		
PSE		
Tag Code		
LCA		
	Unit One	Unit Two
GCA		
PSE		
Tag Code		
LCA		
	Unit One	Unit Two
GCA		
PSE		
Tag Code		
LCA		

BEST AVAILABLE COPY

G1: Process Pressures

G1:AFPAP 29.86



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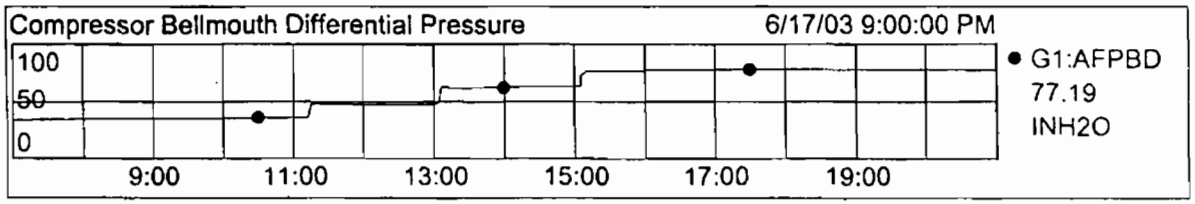

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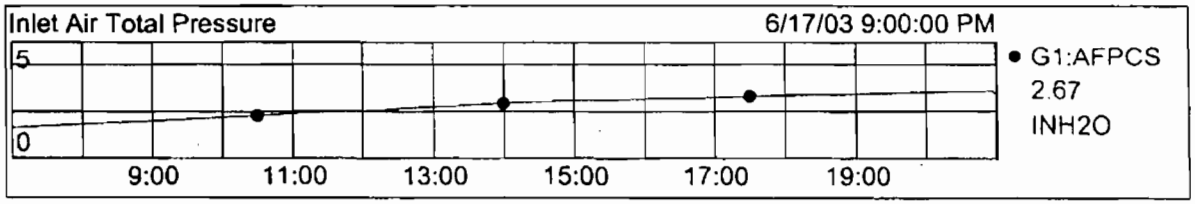

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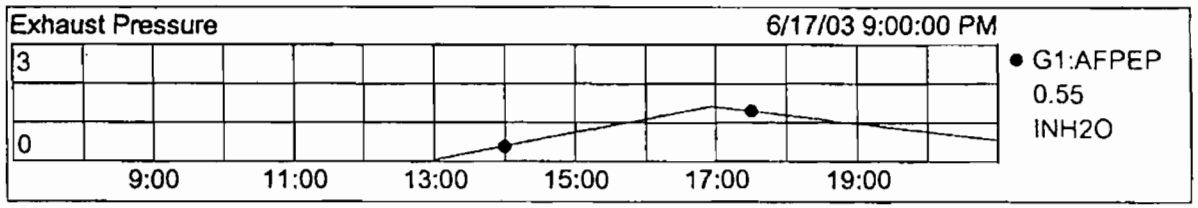

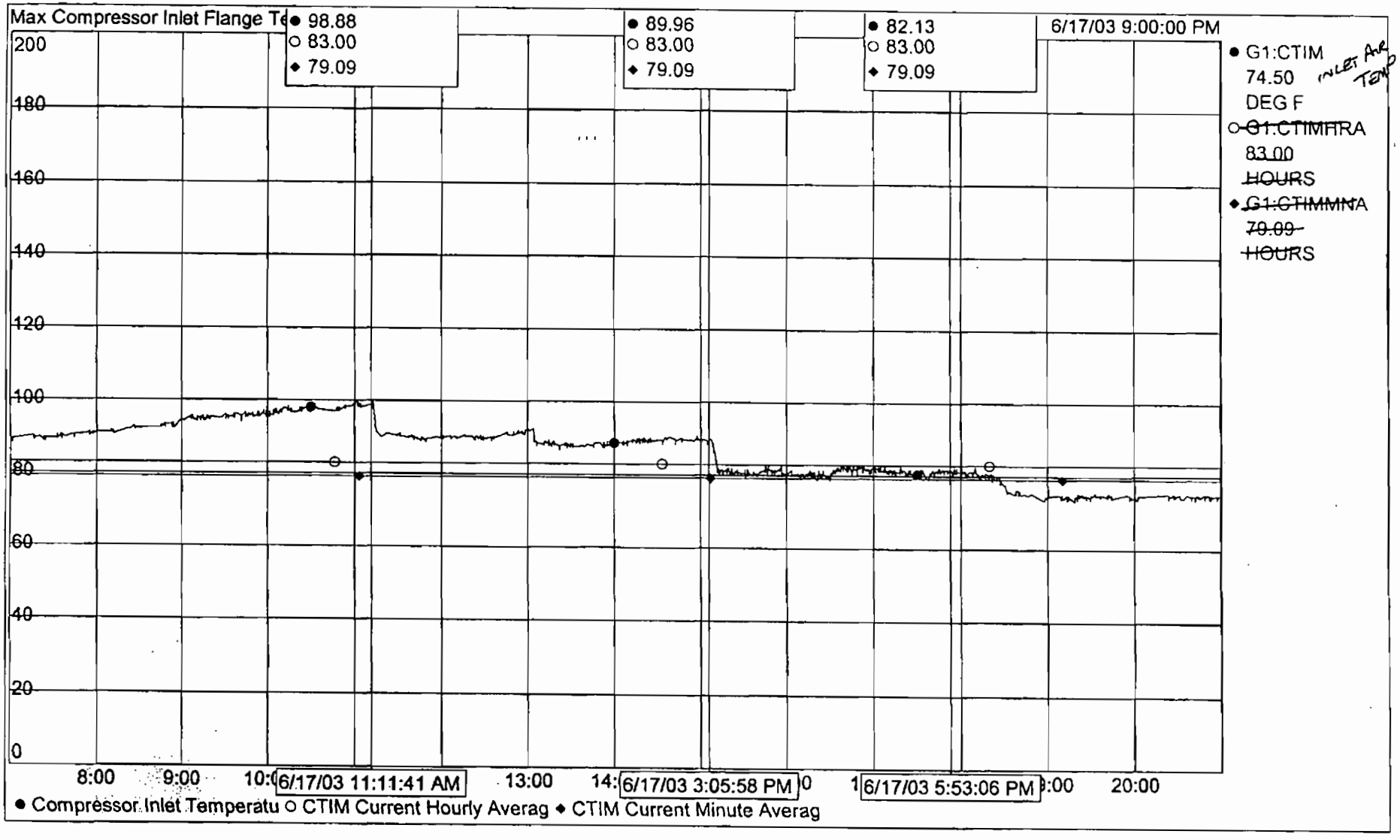
Max Compressor Inlet Flange Te
● 98.88
○ 83.00
◆ 79.09
● 89.96
○ 83.00
◆ 79.09
● 82.13
○ 83.00
◆ 79.09
6/17/03 9:00:00 PM
● G1:CTIM
74.50
DEG F
INLET AIR TEMP
○ G1:CTIMHRA
83.00
HOURS
◆ G1:CTIMMNA
79.09
HOURS
200
180
160
140
120
100
80
60
40
20
0
8:00
9:00
10:0
6/17/03 11:11:41 AM
13:00
14:
6/17/03 3:05:58 PM
0
1
6/17/03 5:53:06 PM
:00
20:00
● Compressor Inlet Temperatu ○ CTIM Current Hourly Averag ◆ CTIM Current Minute Averag

Oil

BEST AVAILABLE COPY

	G1:CTIM	G1:AFPAP	G1:RHUM	G1:FQG	OIL FLOW BOP:CFQIT-1	G1:FQLM1	G1:DWATT	G1:WQ
Hour Ending	Air Temp	Barom	Humidity	Gas Flow	Micro Motion	Flow Divider	Megawatt	Water Injection
7:00	95.05813599	29.84891701		0.00955008	-62.23041153	16.50666237	84.24694824	16.53498077
8:00	95.78541565	29.85268402		0.009189616	-62.25225449	16.42136192	83.86049652	16.31362343
9:00	96.35824585	29.85644913		0.00958284	-62.27409363	16.37692451	83.84924316	16.09226799
10:00	94.73379517	29.86021423		0.00981687	-62.29593658	16.89278984	90.27194977	16.81739616
11:00	86.26652527	29.86397362		0.009536129	-62.31777573	19.93862724	116.8309708	22.47475433
12:00	89.58318329	29.86412811		0.009914855	0.16829291	20.13051605	118.4013062	22.68043137
13:00	80.14764404	29.86122704		0.063075349	189.6331024	22.57189751	142.6638794	26.35002327
14:00	75.98982239	29.85832787		0.011092291	188.8751221	23.18078232	142.0714722	26.18873978
15:00	78.06941986	29.8554287		0.00984104	214.1965637	25.78298759	166.8889771	30.1829319
16:00	79.27359009	29.85252953		0.009799099	215.5305786	25.68557167	168.1270599	30.3201561
17:00	79.6532135	29.84962845		0.009476814	214.7477264	25.33997154	167.6439819	30.11288261
18:00	79.76499939	29.84672928		0.009405888	214.6985779	24.99437141	167.6766052	30.32181549
19:00	84.3700943	29.8438549		0.009115439	104.3097839	12.2321291	77.88621521	13.90760612

Date: 06/18/2003
* = replaced data, GAS units=100scfh, OIL units=lb/hr

TM	FUEL	FUEL FLOW	HEAT INPUT mmBtu	SO2 EM lbs/hr	CO2 EM ton/hr	GGEN Mw
5	OIL	0.0	0.0	0.00000	0.00	58.60
5	GAS	567.0	59.5	0.03570	3.50	58.60
6	OIL	0.0	0.0	0.00000	0.00	84.40
7	OIL	0.0	0.0	0.00000	0.00	83.90
8	OIL	0.0	0.0	0.00000	0.00	84.00
9	OIL	0.0	0.0	0.00000	0.00	90.90
10	OIL	0.0	0.0	0.00000	0.00	116.70
11	OIL	19989.1	391.4	16.00000	33.00	119.00
12	OIL	81679.7	1599.3	65.30000	134.80	142.70
13	OIL	81292.0	1591.7	65.00000	134.10	142.10
14	OIL	92406.6	1809.3	73.90000	152.50	167.30
15	OIL	92751.2	1816.1	74.20000	153.00	168.10
16	OIL	92449.7	1810.2	74.00000	152.50	167.80
17	OIL	92449.7	1810.2	74.00000	152.50	167.80
18	OIL	43812.4	857.8	35.00000	72.30	129.60

Daily totals:	FUEL FLOW	HEAT INPUT mmBtu	SO2 EM lbs/day	CO2 EM ton/day
OIL	596830.4	11686.0	477.40000	984.70
GAS	567.0	59.5	0.03570	3.50

Generation Daily Total: 1722.90 Mw

Fuels Data:	HEAT CONTENT Btu/flow unit	SULFUR CONTENT oil-% gas-lb/mmBtu	CARBON CONTENT %	DENSITY
OIL	19580.0	0.0400	90.00	7.18000 LBGAL
GAS	104980.0	0.0006	75.00	

==========

TOTALS
REPORT DATE: 06/19/2003
REPORT PERIOD
06/17/2003 to 06/19/2003
* = replaced data, GAS units = 100scfh, OIL units = lb/hr

==========

FUEL	FUEL FLOW	HEAT INPUT mmBtu	SO2 EM lbs	CO2 EM tons
OIL	596830.4	11686.0	477.40000	984.70
GAS	200313.0	21028.8	12.61728	1245.20

% used for a fuel = 100*(#hrs fuel used)/(#hrs in period)
% used for OIL = 100*(14/57) = 24.56
% used for GAS = 100*(17/57) = 29.82
Total % used = 100*(#hrs online)/(#hrs in period)
Total % used = 100*(30/57) = 52.63
Total # hours in this period = 57
Total # hours online = 30
Total Generation for period = 3651.60 Mw

% availability for a fuel = 100*(#hrs fuel source=1)/(#hrs fuel used)
% availability for OIL = 100*(14)/(14) = 100.00
% availability for GAS = 100*(17)/(17) = 100.00
Total % availability =

Record#	DATE	TIME	OXY11	GEN12	GAS13	NOXRT14
1	06/18/2003	080000	11.600	83.890	0.030	0.064
2	06/18/2003	090000	12.870	84.090	0.000	0.057
3	06/18/2003	100000	12.950	90.870	0.020	0.058
4	06/18/2003	110000	12.600	116.720	0.030	0.055
5	06/18/2003	120000	12.630	118.940	0.010	0.055
6	06/18/2003	130000	12.520	142.700	0.030	0.054
7	06/18/2003	140000	12.510	142.150	0.020	0.054
8	06/18/2003	150000	12.520	167.290	0.000	0.054
9	06/18/2003	160000	12.530	168.180	0.010	0.054
10	06/18/2003	170000	12.520	167.780	0.010	0.054
11	06/18/2003	180000	12.520	167.780	0.030	0.054
12	/ /					
13	/ /	AVE	12.525	131.854	0.017	0.056

Appendix B

Fuel Analysis Reports

Gas

Natural Gas Calculations

Atomic Weights	
Constituent	g/mol
Hydrogen	1.008
Helium	4.003
Carbon	12.011
Nitrogen	14.007
Oxygen	15.999
Sulfur	32.067
Argon	39.948

Heating Value Calculations

Air Density @ 60 °F and 14.696 PSIA

0.0764 lb_m/ft^3

HHV btu/scf	btu/lb	LHV btu/lb	btu/scf
1051	23094	20831	948

Heat Input Calculations

Gas	SCF/M	SCF/hr	Relative Density	lb/hr	HHV btu/scf	btu/hr
			0.596		1051	

Fuel Analysis

Components		Mole	grams C	grams He	grams H	grams N	grams O	grams S	grams Ar
Methane	CH_4	94.624	1136.5		381.5				
Ethane	C_2H_6	2.834	68.078		17.14				
Propane	C_3H_8	0.863	31.096		6.959				
I-Butane	C_4H_{10}	0.174	8.3597		1.754				
N-Butane	C_4H_{10}	0.170	8.1675		1.713				
Neo-Pentane	C_5H_{12}	0.000	0		0				
I-Pentane	C_5H_{12}	0.036	2.162		0.435				
N-Pentane	C_5H_{12}	0.055	3.303		0.665				
N-Hexane	C_6H_{14}	0.041	2.9547		0.579				
N-Heptanes	C_7H_{16}	0.041	3.4472		0.661				
N-Octanes	C_8H_{18}	0.000	0		0				
N-Nonanes	C_9H_{20}	0.000	0		0				
N-Decanes	$C_{10}H_{22}$	0.000	0		0				
Hendecanes	$C_{11}H_{24}$	0.000	0		0				
Dodecanes	$C_{12}H_{26}$	0.000	0		0				
Tridecanes	$C_{13}H_{28}$	0.000	0.000		0.000				
Tetradecanes	$C_{14}H_{30}$	0.000	0.000		0.000				
Hydrogen	H_2	0.000			0.000				
Nitrogen	N_2	0.273				7.648			
Oxygen	O_2	0.000					0.000		
Argon	Ar	0.000							0.000.
Carbon Dioxide	CO_2	0.889	10.678				28.447		
Carbon Monoxide	CO	0.000	0.000				0.000		
Methanol	CH_4O	0.000	0.000		0.000		0.000		
Helium	He	0.000		0.000					
Water	H_2O	0.000			0.000		0.000		
Hydrogen Sulfide	H_2S	0.000			0.000			0.000	
Total Sulfur	S_8	0.000						0.000	
Total		100.000	1274.8	0	411.4	7.6477	28.45	0	0
						Grand Total			1722.2769

% by weight							
H_2O	C	He	H	N	O	S	Ar
0.000	74.017	0.000	23.887	0.444	1.652	0.000	0.000

Id	BTU	Date	CO2	N2	Grav	Methane	Ethane	Propane	Ibutane	Nbutane	IPentan	NPentan	C6	C7	H2	Helium	Oxygen
8044	1051	6/21/2003	0.915	0.28	0.596	94.611	2.842	0.834	0.173	0.17	0.035	0.056	0.042	0.042	0	0	0
8044	1051	6/20/2003	0.914	0.281	0.596	94.612	2.845	0.834	0.173	0.17	0.035	0.056	0.04	0.04	0	0	0
8044	1051	6/19/2003	0.91	0.282	0.596	94.631	2.825	0.832	0.172	0.17	0.036	0.056	0.043	0.043	0	0	0
8044	1048	6/18/2003	0.846	0.278	0.593	94.998	2.637	0.774	0.148	0.153	0.033	0.05	0.041	0.041	0	0	0
8044	1051	6/17/2003	0.889	0.273	0.596	94.624	2.834	0.863	0.174	0.17	0.036	0.055	0.041	0.041	0	0	0
8044	1052	6/16/2003	0.922	0.276	0.597	94.466	2.918	0.886	0.18	0.177	0.036	0.058	0.042	0.04	0	0	0
8044	1050	6/15/2003	0.964	0.279	0.596	94.554	2.862	0.834	0.172	0.165	0.035	0.056	0.043	0.038	0	0	0
8044	1049	6/14/2003	0.984	0.294	0.596	94.552	2.846	0.819	0.169	0.164	0.034	0.055	0.045	0.04	0	0	0
8044	1050	6/13/2003	0.952	0.289	0.596	94.557	2.863	0.836	0.165	0.164	0.035	0.055	0.044	0.039	0	0	0
8044	1050	6/12/2003	0.952	0.304	0.596	94.567	2.858	0.815	0.165	0.166	0.035	0.055	0.044	0.039	0	0	0

FGT

Last Updated 6/30/03 15:56

Station Name	Total Sulfur Previous Day Avg ppm 06/29/03	Total Sulfur Previous Day Avg Grains/hcf 06/29/03
Perry 36" Stream #1	1.320	0.082
Perry 30" Stream #2	1.904	0.119
Perry 24" Stream #3	1.819	0.114
Brooker 24" Stream	3.850	0.241

Florida Gas makes no warranty or representation whatsoever as to the accuracy of the information provided.
This information is provided on a best efforts basis and is an estimate.
The information is not used for billing purposes.
Florida Gas is not responsible for any reliance on this information by any party.

Stream History

Gas Day	Index	Perry 36" Stream #1 15SA36PSUL.A Avg ppm	Perry 36" Stream #1 Avg Grains/hcf	Perry 30" Stream #2 15SA30PSUL.A Avg ppm	Perry 30" Stream #2 Avg Grains/hcf	Perry 24" Stream #3 15SA24PSUL.A Avg ppm	Perry 24" Stream #3 Avg Grains/hcf	Brooker 24" Stream BRO124PSUL.A Avg ppm	Brooker 24" Stream Avg Grains/hcl
06/28/03	33	1.320	0.082	1.904	0.119	1.819	0.114	3.850	0.241
06/27/03	32	1.504	0.094	2.277	0.142	2.182	0.136	4.424	0.276
06/26/03	31	1.860	0.116	3.200	0.200	3.049	0.191	4.424	0.276
06/25/03	30	1.728	0.108	2.545	0.159	2.410	0.151	4.424	0.276
06/24/03	29	1.533	0.096	2.447	0.153	2.363	0.148	4.424	0.276
06/23/03	28	1.825	0.114	3.011	0.188	2.942	0.184	4.424	0.276
06/22/03	27	1.941	0.121	2.468	0.154	2.909	0.182	4.424	0.276
06/21/03	26	1.921	0.120	2.405	0.150	2.563	0.160	4.489	0.281
06/20/03	25	1.624	0.101	2.337	0.146	2.479	0.155	4.291	0.268
06/19/03	24	1.440	0.090	2.645	0.165	2.616	0.163	4.131	0.258
06/18/03	23	1.463	0.091	2.670	0.167	2.556	0.160	4.546	0.284
06/17/03	22	1.323	0.083	2.327	0.145	2.212	0.138	4.180	0.261
06/16/03	21	1.381	0.086	2.263	0.141	2.169	0.136	4.127	0.258
06/15/03	20	1.337	0.084	2.229	0.139	2.112	0.132	3.965	0.248
06/14/03	19	1.377	0.086	2.144	0.134	2.045	0.128	3.957	0.247
06/13/03	18	1.346	0.084	2.163	0.135	2.055	0.128	3.950	0.247
06/12/03	17	1.466	0.092	2.332	0.146	2.218	0.139	4.076	0.255
06/11/03	16	1.347	0.084	2.043	0.128	1.942	0.121	3.862	0.241
06/10/03	15	1.234	0.077	1.879	0.117	1.798	0.112	4.071	0.254
06/09/03	14	1.373	0.086	2.203	0.138	2.107	0.132	4.498	0.281
06/08/03	13	1.564	0.098	2.625	0.164	2.627	0.164	4.863	0.304
06/07/03	12	1.446	0.090	2.767	0.173	2.801	0.175	4.703	0.294
06/06/03	11	1.485	0.093	2.479	0.155	2.371	0.148	4.510	0.282
06/05/03	10	1.465	0.092	2.253	0.141	2.181	0.136	4.204	0.263
06/04/03	9	1.532	0.096	2.212	0.138	2.102	0.131	4.360	0.273
06/03/03	8	1.382	0.086	2.402	0.150	2.310	0.144	4.292	0.268
06/02/03	7	1.388	0.087	2.572	0.161	2.493	0.156	6.139	0.384
06/01/03	6	1.326	0.083	1.739	0.109	1.668	0.104	4.424	0.277
05/31/03	5	1.289	0.081	1.643	0.103	1.760	0.110	3.782	0.236
05/30/03	4	1.596	0.100	1.911	0.119	2.001	0.125	4.005	0.250
05/29/03	3	1.596	0.100	1.911	0.119	2.001	0.125	4.005	0.250
05/28/03	2	1.596	0.100	2.020	0.126	2.106	0.132	4.084	0.255
05/27/03	1	1.524	0.095	1.935	0.121	2.064	0.129	3.691	0.231

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Oil

OIL SUPPLIER

ITS Intertek Testing Services
Caleb Brett

Analysis Report

Lab Number 2003-0796 **Customer Reference**
Job number T3061434

Date Sampled 06/08/03 **Submitted On** 06/08/03 **Date Tested** 06/09/03

Product: Low Sulfur Diesel **To:** Florida Power & Light

Taken From Tk 80-11

Location Marathon/Ashland Terminal, Tampa, Florida **By:** Intertek Testing Services/Caleb Brett

Representing Running Composite Sample

API Gravity @ 60 deg F	ASTM D4052	**33.2**	
Sulfur Content	ASTM D4294	**0.0344**	wt%
Carbon	ASTM D5291	**86.45**	wt%
Hydrogen	ASTM D5291	**13.40**	wt%
Nitrogen	ASTM D5762	**154**	ppm
Vanadium	ASTM D3605	**<0.1**	ppm
Sodium	ASTM D3605	**<0.1**	ppm
Potassium	ASTM D3605	**<0.1**	ppm
Lead	ASTM D3605	**<0.1**	ppm
Magnesium	ASTM D3605	**<0.1**	ppm
Calcium	ASTM D3605	**<0.1**	ppm
Gross Heat of Combustion	ASTM D240	**19,457**	BTU/lb
		139,195	BTU/gal
		5,846,190	BTU/bbl
Net Heat of Combustion	ASTM D240	**18,234**	BTU/lb
		130,446	BTU/gal
		5,478,732	BTU/bbl

Intertek Testing Services/Caleb Brett
Tampa, Florida

Appendix C

Reference Method Run Data

Gas

50, 70, and 85 % of Base Load

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Compliance 50, 70, 85 % Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 1

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.01 %	0.01 %	0.01
13.00 percent O_2	12.87 %	12.84 %	12.85
0.0 ppm NO_x	0.1 ppm	0.1 ppm	0.15
9.8 ppm NO_x	9.8 ppm	9.8 ppm	9.80

Mean Reference Values:	Corrected Results:	Basis:
13.79 percent O_2	**13.80** percent O_2	DRY
7.7 ppm NO_x	**7.7** ppm NO_x	DRY

Emission Calculations:

6.4 NOx @ 15% O2 from O2

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Compliance 50, 70, 85 % Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 2

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.01 %	0.02 %	0.02
13.00 percent O_2	12.84 %	12.87 %	12.85
0.0 ppm NO_x	0.1 ppm	0.1 ppm	0.15
9.8 ppm NO_x	9.8 ppm	9.8 ppm	9.79

Mean Reference Values:	Corrected Results:	Basis:
13.76 percent O_2	**13.80** percent O_2	DRY
7.7 ppm NO_x	**7.7** ppm NO_x	DRY

Emission Calculations:

6.4 NOx @ 15% O2 from O2

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Compliance 50, 70, 85 % Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 3

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.02 %	0.00 %	0.01
13.00 percent O_2	12.87 %	12.86 %	12.87
0.0 ppm NO_x	0.1 ppm	0.1 ppm	0.14
9.8 ppm NO_x	9.8 ppm	9.8 ppm	9.76

Mean Reference Values:	Corrected Results:	Basis:
13.80 percent O_2	**13.80** percent O_2	DRY
7.8 ppm NO_x	**7.8** ppm NO_x	DRY

Emission Calculations:

6.5 NOx @ 15% O2 from O2

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Compliance 50, 70, 85 % Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 4

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.00 %	0.02 %	0.01
13.00 percent O_2	12.86 %	12.88 %	12.87
0.0 ppm NO_X	0.1 ppm	0.1 ppm	0.13
9.8 ppm NO_X	9.8 ppm	9.8 ppm	9.76

Mean Reference Values:	Corrected Results:	Basis:
13.66 percent O_2	**13.70** percent O_2	DRY
7.9 ppm NO_X	**7.9** ppm NO_X	DRY

Emission Calculations:

6.5 NOx @ 15% O2 from O2

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Compliance 50, 70, 85 % Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 5

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.02 %	0.03 %	0.02
13.00 percent O_2	12.88 %	12.88 %	12.88
0.0 ppm NO_x	0.1 ppm	0.1 ppm	0.13
9.8 ppm NO_x	9.8 ppm	9.8 ppm	9.76

Mean Reference Values:	Corrected Results:	Basis:
13.68 percent O_2	**13.70** percent O_2	DRY
7.8 ppm NO_x	**7.8** ppm NO_x	DRY

Emission Calculations:

6.4 NOx @ 15% O2 from O2

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Compliance 50, 70, 85 % Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 6

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.03 %	0.02 %	0.02
13.00 percent O_2	12.88 %	12.90 %	12.89
0.0 ppm NO_X	0.1 ppm	0.1 ppm	0.13
9.8 ppm NO_X	9.8 ppm	9.8 ppm	9.77

Mean Reference Values:	Corrected Results:	Basis:
13.67 percent O_2	**13.70** percent O_2	DRY
7.8 ppm NO_X	**7.8** ppm NO_X	DRY

Emission Calculations:

6.4 NOx @ 15% O2 from O2

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Compliance 50, 70, 85 % Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 7

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.02 %	0.02 %	0.02
13.00 percent O_2	12.90 %	12.89 %	12.90
0.0 ppm NO_X	0.1 ppm	0.1 ppm	0.14
9.8 ppm NO_X	9.8 ppm	9.8 ppm	9.76

Mean Reference Values:	**Corrected Results:**	**Basis:**
13.62 percent O_2	**13.60** percent O_2	DRY
7.5 ppm NO_X	**7.5** ppm NO_X	DRY

Emission Calculations:

6.1 NOx @ 15% O2 from O2

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Compliance 50, 70, 85 % Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 8

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.02 %	0.04 %	0.03
13.00 percent O_2	12.89 %	12.86 %	12.88
0.0 ppm NO_x	0.1 ppm	0.1 ppm	0.14
9.8 ppm NO_x	9.8 ppm	9.7 ppm	9.74

Mean Reference Values:	Corrected Results:	Basis:
13.64 percent O_2	**13.60** percent O_2	DRY
7.7 ppm NO_x	**7.7** ppm NO_x	DRY

Emission Calculations:

6.2 NOx @ 15% O2 from O2

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Compliance 50, 70, 85 % Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 9

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.04 %	0.04 %	0.04
13.00 percent O_2	12.86 %	12.89 %	12.88
0.0 ppm NO_X	0.1 ppm	0.1 ppm	0.14
9.8 ppm NO_X	9.7 ppm	9.7 ppm	9.71

Mean Reference Values:	**Corrected Results:**	**Basis:**
13.63 percent O_2	**13.60** percent O_2	DRY
7.7 ppm NO_X	**7.7** ppm NO_X	DRY

Emission Calculations:

6.2 NOx @ 15% O2 from O2

Run Number	Date	Time	3 O2	1 NOX
1	6/17/2003	9:29:15	13.80	7.7
1	6/17/2003	9:30:15	13.79	7.7
1	6/17/2003	9:31:15	13.79	7.7
1	6/17/2003	9:32:15	13.79	7.7
1	6/17/2003	9:33:15	13.79	7.7
1	6/17/2003	9:34:15	13.78	7.7
1	6/17/2003	9:35:15	13.78	7.7
1	6/17/2003	9:36:15	13.79	7.6
1	6/17/2003	9:37:15	13.80	7.7
1	6/17/2003	9:38:15	13.80	7.6
1	6/17/2003	9:39:15	13.80	7.6
1	6/17/2003	9:40:15	13.80	7.6
1	6/17/2003	9:41:15	13.78	7.7
1	6/17/2003	9:42:15	13.78	7.7
1	6/17/2003	9:43:15	13.79	7.7
1	6/17/2003	9:44:15	13.78	7.7
1	6/17/2003	9:45:15	13.78	7.7
1	6/17/2003	9:46:15	13.81	7.7
1	6/17/2003	9:47:15	13.79	7.7
1	6/17/2003	9:48:15	13.78	7.7
1	6/17/2003	9:49:15	13.83	7.7
1	6/17/2003	9:50:15	13.78	7.6
1	6/17/2003	9:51:15	13.81	7.7
1	6/17/2003	9:52:15	13.82	7.7
1	6/17/2003	9:53:15	13.81	7.6
2	6/17/2003	10:05:45	13.52	7.7
2	6/17/2003	10:06:45	13.62	7.7
2	6/17/2003	10:07:45	13.57	7.7
2	6/17/2003	10:08:45	13.64	7.7
2	6/17/2003	10:09:45	13.59	7.7
2	6/17/2003	10:10:45	13.59	7.6
2	6/17/2003	10:11:45	13.73	7.6
2	6/17/2003	10:12:45	13.82	7.7
2	6/17/2003	10:13:45	13.82	7.7
2	6/17/2003	10:14:45	13.82	7.7
2	6/17/2003	10:15:45	13.83	7.7
2	6/17/2003	10:16:45	13.82	7.8
2	6/17/2003	10:17:45	13.82	7.8
2	6/17/2003	10:18:45	13.82	7.7
2	6/17/2003	10:19:45	13.79	7.7
2	6/17/2003	10:20:45	13.79	7.8
2	6/17/2003	10:21:45	13.83	7.7
2	6/17/2003	10:22:45	13.80	7.7
2	6/17/2003	10:23:45	13.79	7.8
2	6/17/2003	10:24:45	13.86	7.7
2	6/17/2003	10:25:45	13.82	7.8
2	6/17/2003	10:26:45	13.80	7.7
2	6/17/2003	10:27:45	13.84	7.7

2	6/17/2003	10:28:45	13.80	7.8
3	6/17/2003	10:29:45	13.77	7.8
3	6/17/2003	10:39:15	13.78	7.8
3	6/17/2003	10:40:15	13.77	7.8
3	6/17/2003	10:41:15	13.77	7.8
3	6/17/2003	10:42:15	13.77	7.9
3	6/17/2003	10:43:15	13.78	7.8
3	6/17/2003	10:44:15	13.77	7.8
3	6/17/2003	10:45:15	13.79	7.8
3	6/17/2003	10:46:15	13.78	7.8
3	6/17/2003	10:47:15	13.78	7.7
3	6/17/2003	10:48:15	13.78	7.8
3	6/17/2003	10:49:15	13.79	7.8
3	6/17/2003	10:50:15	13.79	7.7
3	6/17/2003	10:51:15	13.80	7.7
3	6/17/2003	10:52:15	13.79	7.8
3	6/17/2003	10:53:15	13.80	7.7
3	6/17/2003	10:54:15	13.82	7.8
3	6/17/2003	10:55:15	13.81	7.8
3	6/17/2003	10:56:15	13.79	7.8
3	6/17/2003	10:57:15	13.84	7.8
3	6/17/2003	10:58:15	13.83	7.6
3	6/17/2003	10:59:15	13.80	7.7
3	6/17/2003	11:02:15	13.80	7.8
3	6/17/2003	11:03:15	13.80	7.9
3	6/17/2003	11:04:15	13.80	7.8
4	6/17/2003	11:17:00	13.65	7.9
4	6/17/2003	11:18:00	13.65	7.9
4	6/17/2003	11:19:00	13.65	7.9
4	6/17/2003	11:20:00	13.66	7.9
4	6/17/2003	11:21:00	13.66	7.9
4	6/17/2003	11:22:00	13.65	7.9
4	6/17/2003	11:23:00	13.66	7.9
4	6/17/2003	11:24:00	13.66	7.9
4	6/17/2003	11:25:00	13.67	7.9
4	6/17/2003	11:26:00	13.66	8.0
4	6/17/2003	11:27:00	13.67	8.0
4	6/17/2003	11:28:00	13.67	7.9
4	6/17/2003	11:29:00	13.67	7.9
4	6/17/2003	11:30:00	13.66	7.9
4	6/17/2003	11:31:00	13.66	7.9
4	6/17/2003	11:32:00	13.68	7.9
4	6/17/2003	11:33:00	13.67	7.9
4	6/17/2003	11:34:00	13.66	8.0
4	6/17/2003	11:35:00	13.68	8.0
4	6/17/2003	11:36:00	13.66	8.0
4	6/17/2003	11:37:00	13.66	8.0
4	6/17/2003	11:38:00	13.66	7.9
4	6/17/2003	11:39:00	13.66	8.0
4	6/17/2003	11:40:00	13.67	8.0
5	6/17/2003	11:41:00	13.67	7.8
5	6/17/2003	12:01:15	13.67	7.7

5	6/17/2003	12:02:15	13.67	7.7
5	6/17/2003	12:03:15	13.68	7.7
5	6/17/2003	12:04:15	13.68	7.8
5	6/17/2003	12:05:15	13.67	7.8
5	6/17/2003	12:06:15	13.66	7.8
5	6/17/2003	12:07:15	13.66	7.8
5	6/17/2003	12:08:15	13.67	7.8
5	6/17/2003	12:09:15	13.67	7.8
5	6/17/2003	12:10:15	13.67	7.8
5	6/17/2003	12:11:15	13.68	7.9
5	6/17/2003	12:12:15	13.68	7.8
5	6/17/2003	12:13:15	13.68	7.8
5	6/17/2003	12:14:15	13.67	7.8
5	6/17/2003	12:15:15	13.67	7.8
5	6/17/2003	12:16:15	13.68	7.9
5	6/17/2003	12:17:15	13.69	7.8
5	6/17/2003	12:18:15	13.67	7.8
5	6/17/2003	12:19:15	13.69	7.8
5	6/17/2003	12:20:15	13.66	7.8
5	6/17/2003	12:21:15	13.70	7.8
5	6/17/2003	12:22:15	13.76	7.8
5	6/17/2003	12:23:15	13.68	7.7
5	6/17/2003	12:24:15	13.67	7.8
6	6/17/2003	12:33:15	13.65	7.9
6	6/17/2003	12:34:15	13.66	7.9
6	6/17/2003	12:35:15	13.65	7.9
6	6/17/2003	12:36:15	13.66	7.9
6	6/17/2003	12:37:15	13.66	7.9
6	6/17/2003	12:38:15	13.65	7.8
6	6/17/2003	12:39:15	13.66	7.8
6	6/17/2003	12:40:15	13.66	7.8
6	6/17/2003	12:41:15	13.67	7.8
6	6/17/2003	12:42:15	13.68	7.8
6	6/17/2003	12:43:15	13.68	7.8
6	6/17/2003	12:44:15	13.68	7.8
6	6/17/2003	12:45:15	13.68	7.8
6	6/17/2003	12:46:15	13.68	7.8
6	6/17/2003	12:47:15	13.67	7.8
6	6/17/2003	12:48:15	13.68	7.8
6	6/17/2003	12:49:15	13.68	7.8
6	6/17/2003	12:50:15	13.66	7.9
6	6/17/2003	12:51:15	13.65	7.9
6	6/17/2003	12:52:15	13.72	7.9
6	6/17/2003	12:53:15	13.67	7.7
6	6/17/2003	12:54:15	13.66	7.7
6	6/17/2003	12:55:15	13.73	7.8
6	6/17/2003	12:56:15	13.66	7.9
6	6/17/2003	12:57:15	13.66	7.8
7	6/17/2003	13:11:45	13.59	7.4
7	6/17/2003	13:12:45	13.61	7.3
7	6/17/2003	13:13:53	13.62	7.3
7	6/17/2003	13:14:45	13.61	7.4

7	6/17/2003	13:15:45	13.62	7.4
7	6/17/2003	13:16:45	13.62	7.4
7	6/17/2003	13:17:45	13.62	7.4
7	6/17/2003	13:18:45	13.63	7.4
7	6/17/2003	13:19:45	13.62	7.4
7	6/17/2003	13:20:45	13.63	7.4
7	6/17/2003	13:21:45	13.62	7.4
7	6/17/2003	13:22:45	13.61	7.5
7	6/17/2003	13:23:45	13.65	7.5
7	6/17/2003	13:24:45	13.61	7.6
7	6/17/2003	13:25:45	13.61	7.5
7	6/17/2003	13:26:45	13.65	7.6
7	6/17/2003	13:27:45	13.63	7.6
7	6/17/2003	13:28:45	13.61	7.5
7	6/17/2003	13:29:45	13.61	7.5
7	6/17/2003	13:30:45	13.65	7.6
7	6/17/2003	13:31:45	13.62	7.6
7	6/17/2003	13:32:45	13.61	7.6
7	6/17/2003	13:33:45	13.62	7.6
7	6/17/2003	13:34:45	13.60	7.6
8	6/17/2003	13:35:45	13.62	7.6
8	6/17/2003	14:01:15	13.62	7.6
8	6/17/2003	14:02:15	13.63	7.6
8	6/17/2003	14:03:15	13.63	7.6
8	6/17/2003	14:04:15	13.66	7.7
8	6/17/2003	14:05:15	13.64	7.7
8	6/17/2003	14:06:15	13.64	7.7
8	6/17/2003	14:07:15	13.63	7.7
8	6/17/2003	14:08:15	13.62	7.7
8	6/17/2003	14:09:15	13.63	7.6
8	6/17/2003	14:10:15	13.63	7.6
8	6/17/2003	14:11:15	13.65	7.6
8	6/17/2003	14:12:15	13.63	7.7
8	6/17/2003	14:13:15	13.64	7.7
8	6/17/2003	14:14:15	13.62	7.8
8	6/17/2003	14:15:15	13.62	7.8
8	6/17/2003	14:16:15	13.63	7.8
8	6/17/2003	14:17:15	13.63	7.8
8	6/17/2003	14:18:15	13.63	7.7
8	6/17/2003	14:19:15	13.64	7.7
8	6/17/2003	14:20:15	13.64	7.7
8	6/17/2003	14:21:15	13.64	7.7
8	6/17/2003	14:22:15	13.64	7.7
8	6/17/2003	14:23:15	13.65	7.7
8	6/17/2003	14:24:15	13.65	7.8
9	6/17/2003	14:34:30	13.64	7.6
9	6/17/2003	14:35:30	13.64	7.7
9	6/17/2003	14:36:30	13.63	7.7
9	6/17/2003	14:37:30	13.64	7.7
9	6/17/2003	14:38:30	13.63	7.8
9	6/17/2003	14:39:30	13.65	7.7
9	6/17/2003	14:40:30	13.63	7.8

9	6/17/2003	14:41:30	13.62	7.8
9	6/17/2003	14:42:30	13.63	7.7
9	6/17/2003	14:43:30	13.63	7.7
9	6/17/2003	14:44:30	13.63	7.7
9	6/17/2003	14:45:30	13.63	7.7
9	6/17/2003	14:46:30	13.61	7.7
9	6/17/2003	14:47:30	13.63	7.7
9	6/17/2003	14:48:30	13.63	7.7
9	6/17/2003	14:49:30	13.61	7.7
9	6/17/2003	14:50:30	13.63	7.7
9	6/17/2003	14:51:30	13.63	7.7
9	6/17/2003	14:52:30	13.61	7.7
9	6/17/2003	14:53:30	13.64	7.7
9	6/17/2003	14:54:30	13.65	7.7
9	6/17/2003	14:55:30	13.66	7.7
9	6/17/2003	14:56:30	13.66	7.7
9	6/17/2003	14:57:30	13.66	7.7
End				

Run Averages:

Run Number	3 O2	1 NOX
1	13.79	7.7
2	13.76	7.7
3	13.79	7.8
4	13.66	7.9
5	13.68	7.8
6	13.67	7.8
7	13.62	7.5
8	13.63	7.7
9	13.63	7.7

Gas

Base Load

Compliance Summary

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Complilance 100% Load
Date:06/17/2003

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run Number	Units	Run 1	Run 2	Run 3	Average	Standard
Date of Run	2003	17-Jun	17-Jun	17-Jun		
Start Time		15:01:00	16:47:00	18:28:00		
Stop Time		16:29:00	18:16:00	19:58:00		
Unit Load	MW	160.00	160.00	160.00	160.0	
Fuel Flow	1000Cu-Ft/Hr	1597.50	1599.60	1603.80	1600.3	
Fuel Heat Value	Btu/Cu-Ft	948.0	948.0	948.0	948.0	
O2	%, dry	13.44	13.60	13.61		
H20, assumed	%	15.0	15.0	15.0		
NO_X	Lbs/mmBtu	0.0242	0.0246	0.0247		
NO_X	ppmvd	8.33	8.27	8.30		
NO_X	ppm@15% O2	6.6	6.7	6.7	**6.7**	**9.0**
NO_X	Lbs/Hr[a]	38.91	37.29	37.53	**37.91**	**64.1**
CO	Lbs/mmBtu	0.0030	0.0029	0.0029		
CO	ppmvd	1.6	1.6	1.6	**1.6**	**12.0**
CO	Lbs/Hr[a]	4.57	4.38	4.45	**4.47**	**42.5**
Fuel Sulfur Content	gr/hcf	0.083	0.083	0.083	**0.083**	**1.0**
SO_2	Lbs/Hr[b]	0.38	0.38	0.38	**0.38**	**5.0**
THC	Lbs/mmBtu	-0.0002	0.0004	-0.0024		
THC	ppmvw	-0.1	0.2	-0.7		
THC	ppmvd[d]	-0.1	0.2	-0.6	**-0.2**	**1.4**
THC	Lbs/Hr[a]	-0.26	0.66	-3.69	**-1.10**	**2.8**
Opacity[c]	%	0.0	0.0	0.0	**0.0**	**10.0**

[a] Lbs/Hr = Pollutant Emission Rate (Lbs/mmBtu) x (Fuel Feed Rate (1000Cu-Ft/Hr) x Fuel LHV (Btu/Cu-Ft)/1000)
[b] Lbs/Hr = (2.0/7000) x Fuel Flow (100Cu-Ft/Hr) x Fuel Sulfur Content (gr/hcf)
[c] Opacity is the surrogate for particulate emissions per permit condition A.16
[d] ppmvd = ppmvw x (1-(%H20/100))

Lbs/mmBtu = pollutant concentration (ppmvd) x conversion factor x F_d (8710 Gas) x (20.9 / (20.9 - O_2 (percent dry))
Where: conversion factor= NO_X (1.194 x 10-7); THC as Propane (1.142 x 10-7); CO (0.725 x 10-7)

Pollutant ppm @15% O_2 = pollutant concentration (ppmvd) x (5.9/20.9 - O_2 (percent, dry))

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Complilance 100% Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 1

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.03 %	-0.01 %	0.01
13.00 percent O_2	12.94 %	12.94 %	12.94
0.0 ppm NO_X	0.1 ppm	0.1 ppm	0.10
9.8 ppm NO_X	9.8 ppm	9.8 ppm	9.77
0.0 ppm CO	1.9 ppm	1.8 ppm	1.87
11.8 ppm CO	12.1 ppm	12.1 ppm	12.12
0.0 ppm THC	0.3 ppm	0.1 ppm	0.19
5.0 ppm THC	5.1 ppm	5.0 ppm	5.04

Mean Reference Values:	Corrected Results:	Basis:
13.54 percent O_2	**13.54** percent O_2	DRY
8.4 ppm NO_X	**8.4** ppm NO_X	DRY
1.7 ppm CO	**1.7** ppm CO	DRY
-0.1 ppm THC	**-0.2** ppm THC	WET

Emission Calculations:

0.0247 NO_X Lbs/mmBtu from O_2
-0.0008 THC Lbs/mmBtu from O_2
0.0030 CO Lbs/mmBtu from O_2
37.44 NO_X Lbs/Hr from O_2
-1.21 THC Lbs/Hr from O_2
4.54 CO Lbs/Hr from O_2

6.7 NOx @ 15% O2 from O2
-0.2 THC @ 15% O2 from O2
1.3 CO @ 15% O2 from O2

Bwa: **15.00 %**
Bws: **15.00 %**
Fuel Analysis: **948 Btu/Cu-Ft**
Oxygen Correction: **15.00 %**
Fuel Flow: **1597500 Cu-Ft/Hr**

Fuel Factors:
1040 scf/mmBtu
8710 dscf/mmBtu
10610 wscf/mmBtu

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Complilance 100% Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 2

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	-0.01 %	0.02 %	0.01
13.00 percent O_2	12.94 %	12.72 %	12.83
0.0 ppm NO_X	0.1 ppm	0.1 ppm	0.14
9.8 ppm NO_X	9.8 ppm	9.8 ppm	9.77
0.0 ppm CO	1.8 ppm	1.8 ppm	1.83
11.8 ppm CO	12.1 ppm	12.1 ppm	12.10
0.0 ppm THC	0.1 ppm	0.1 ppm	0.13
5.0 ppm THC	5.0 ppm	5.1 ppm	5.05

Mean Reference Values:	Corrected Results:	Basis:
13.47 percent O_2	**13.47** percent O_2	DRY
8.3 ppm NO_X	**8.3** ppm NO_X	DRY
1.7 ppm CO	**1.7** ppm CO	DRY
0.0 ppm THC	**-0.2** ppm THC	WET

Emission Calculations:

0.0243 NO_X Lbs/mmBtu from O_2
-0.0005 THC Lbs/mmBtu from O_2
0.0031 CO Lbs/mmBtu from O_2
36.82 NO_X Lbs/Hr from O_2
-0.74 THC Lbs/Hr from O_2
4.66 CO Lbs/Hr from O_2

6.6 NOx @ 15% O2 from O2
-0.1 THC @ 15% O2 from O2
1.4 CO @ 15% O2 from O2

Bwa: **15.00 %**
Bws: **15.00 %**
Fuel Analysis: **948 Btu/Cu-Ft**
Oxygen Correction: **15.0 %**
Fuel Flow: **1597500 Cu-Ft/Hr**

Fuel Factors:
1040 scf/mmBtu
8710 dscf/mmBtu
10610 wscf/mmBtu

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Complilance 100% Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 3

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.02 %	0.00 %	0.01
13.00 percent O_2	12.72 %	12.92 %	12.82
0.0 ppm NO_X	0.1 ppm	0.0 ppm	0.08
9.8 ppm NO_X	9.8 ppm	9.8 ppm	9.77
0.0 ppm CO	1.8 ppm	1.7 ppm	1.77
11.8 ppm CO	12.1 ppm	12.2 ppm	12.14
0.0 ppm THC	0.1 ppm	0.2 ppm	0.18
5.0 ppm THC	5.1 ppm	5.1 ppm	5.12

Mean Reference Values:	Corrected Results:	Basis:
13.31 percent O_2	**13.31** percent O_2	DRY
8.3 ppm NO_X	**8.3** ppm NO_X	DRY
1.7 ppm CO	**1.7** ppm CO	DRY
0.1 ppm THC	**0.2** ppm THC	WET

Emission Calculations:

0.0237 NO_X Lbs/mmBtu from O_2
0.0008 THC Lbs/mmBtu from O_2
0.0030 CO Lbs/mmBtu from O_2
35.91 NO_X Lbs/Hr from O_2
1.17 THC Lbs/Hr from O_2
4.51 CO Lbs/Hr from O_2

6.4 NOx @ 15% O2 from O2
0.2 THC @ 15% O2 from O2
1.3 CO @ 15% O2 from O2

Bwa: **15.00 %**
Bws: **15.00 %**
Fuel Analysis: **948 Btu/Cu-Ft**
Oxygen Correction: **15.0 %**
Fuel Flow: **1597500 Cu-Ft/Hr**

Fuel Factors:
1040 scf/mmBtu
8710 dscf/mmBtu
10610 wscf/mmBtu

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Complilance 100% Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 4

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.00 %	0.03 %	0.02
13.00 percent O_2	12.92 %	13.01 %	12.97
0.0 ppm NO_x	0.0 ppm	0.1 ppm	0.07
9.8 ppm NO_x	9.8 ppm	9.8 ppm	9.77
0.0 ppm CO	1.7 ppm	1.7 ppm	1.69
11.8 ppm CO	12.2 ppm	11.9 ppm	12.03
0.0 ppm THC	0.2 ppm	0.2 ppm	0.22
5.0 ppm THC	5.1 ppm	5.2 ppm	5.16

Mean Reference Values:	Corrected Results:	Basis:
13.61 percent O_2	**13.61** percent O_2	DRY
8.3 ppm NO_x	**8.3** ppm NO_x	DRY
1.8 ppm CO	**1.8** ppm CO	DRY
0.1 ppm THC	**0.4** ppm THC	WET

Emission Calculations:

0.0248 NO_x Lbs/mmBtu from O_2
0.0012 THC Lbs/mmBtu from O_2
0.0033 CO Lbs/mmBtu from O_2
37.53 NO_x Lbs/Hr from O_2
1.83 THC Lbs/Hr from O_2
4.95 CO Lbs/Hr from O_2

6.7 NOx @ 15% O2 from O2
0.3 THC @ 15% O2 from O2
1.5 CO @ 15% O2 from O2

Bwa: **15.00 %**
Bws: **15.00 %**
Fuel Analysis: **948 Btu/Cu-Ft**
Oxygen Correction: **15.0 %**
Fuel Flow: **1597500 Cu-Ft/Hr**

Fuel Factors:
1040 scf/mmBtu
8710 dscf/mmBtu
10610 wscf/mmBtu

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Complilance 100% Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 5

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.03 %	0.05 %	0.04
13.00 percent O_2	13.01 %	12.98 %	13.00
0.0 ppm NO_X	0.1 ppm	0.2 ppm	0.13
9.8 ppm NO_X	9.8 ppm	9.8 ppm	9.79
0.0 ppm CO	1.7 ppm	1.5 ppm	1.60
11.8 ppm CO	11.9 ppm	11.7 ppm	11.82
0.0 ppm THC	0.2 ppm	0.1 ppm	0.18
5.0 ppm THC	5.2 ppm	5.1 ppm	5.15

Mean Reference Values:	Corrected Results:	Basis:
13.59 percent O_2	**13.59** percent O_2	DRY
8.2 ppm NO_X	**8.2** ppm NO_X	DRY
1.5 ppm CO	**1.5** ppm CO	DRY
0.1 ppm THC	**0.2** ppm THC	WET

Emission Calculations:

0.0244 NO_X Lbs/mmBtu from O_2
0.0005 THC Lbs/mmBtu from O_2
0.0028 CO Lbs/mmBtu from O_2
36.92 NO_X Lbs/Hr from O_2
0.76 THC Lbs/Hr from O_2
4.16 CO Lbs/Hr from O_2

6.6 NOx @ 15% O2 from O2
0.1 THC @ 15% O2 from O2
1.2 CO @ 15% O2 from O2

Bwa: **15.00 %**
Bws: **15.00 %**
Fuel Analysis: **948 Btu/Cu-Ft**
Oxygen Correction: **15.0 %**
Fuel Flow: **1597500 Cu-Ft/Hr**

Fuel Factors:
1040 scf/mmBtu
8710 dscf/mmBtu
10610 wscf/mmBtu

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Complilance 100% Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 6

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.05 %	0.03 %	0.04
13.00 percent O_2	12.98 %	13.03 %	13.00
0.0 ppm NO_x	0.2 ppm	0.2 ppm	0.15
9.8 ppm NO_x	9.8 ppm	9.8 ppm	9.84
0.0 ppm CO	1.5 ppm	1.5 ppm	1.52
11.8 ppm CO	11.7 ppm	11.8 ppm	11.76
0.0 ppm THC	0.1 ppm	0.0 ppm	0.08
5.0 ppm THC	5.1 ppm	5.0 ppm	5.05

Mean Reference Values:	Corrected Results:	Basis:
13.60 percent O_2	**13.60** percent O_2	DRY
8.3 ppm NO_x	**8.3** ppm NO_x	DRY
1.5 ppm CO	**1.5** ppm CO	DRY
0.0 ppm THC	**-0.1** ppm THC	WET

Emission Calculations:

0.0246 NO_x Lbs/mmBtu from O_2
-0.0004 THC Lbs/mmBtu from O_2
0.0027 CO Lbs/mmBtu from O_2
37.43 NO_x Lbs/Hr from O_2
-0.61 THC Lbs/Hr from O_2
4.04 CO Lbs/Hr from O_2

6.7 NOx @ 15% O2 from O2
-0.1 THC @ 15% O2 from O2
1.2 CO @ 15% O2 from O2

Bwa: **15.00 %**
Bws: **15.00 %**
Fuel Analysis: **948 Btu/Cu-Ft**
Oxygen Correction: **15.0 %**
Fuel Flow: **1603800 Cu-Ft/Hr**

Fuel Factors:
1040 scf/mmBtu
8710 dscf/mmBtu
10610 wscf/mmBtu

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Complilance 100% Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 7

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.03 %	0.04 %	0.03
13.00 percent O_2	13.03 %	13.01 %	13.02
0.0 ppm NO_X	0.2 ppm	0.2 ppm	0.16
9.8 ppm NO_X	9.8 ppm	9.9 ppm	9.86
0.0 ppm CO	1.5 ppm	1.6 ppm	1.55
11.8 ppm CO	11.8 ppm	11.9 ppm	11.84
0.0 ppm THC	0.0 ppm	0.0 ppm	-0.02
5.0 ppm THC	5.0 ppm	5.0 ppm	5.01

Mean Reference Values:	Corrected Results:	Basis:
13.60 percent O_2	**13.60** percent O_2	DRY
8.3 ppm NO_X	**8.3** ppm NO_X	DRY
1.6 ppm CO	**1.6** ppm CO	DRY
-0.2 ppm THC	**-0.5** ppm THC	WET

Emission Calculations:

0.0247 NO_X Lbs/mmBtu from O_2
-0.0017 THC Lbs/mmBtu from O_2
0.0028 CO Lbs/mmBtu from O_2
37.48 NO_X Lbs/Hr from O_2
-2.60 THC Lbs/Hr from O_2
4.30 CO Lbs/Hr from O_2

6.7 NOx @ 15% O2 from O2
-0.5 THC @ 15% O2 from O2
1.3 CO @ 15% O2 from O2

Bwa: **15.00 %**
Bws: **15.00 %**
Fuel Analysis: **948 Btu/Cu-Ft**
Oxygen Correction: **15.0 %**
Fuel Flow: **1603800 Cu-Ft/Hr**

Fuel Factors:
1040 scf/mmBtu
8710 dscf/mmBtu
10610 wscf/mmBtu

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Complilance 100% Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 8

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.04 %	0.03 %	0.03
13.00 percent O_2	13.01 %	13.00 %	13.00
0.0 ppm NO_x	0.2 ppm	0.2 ppm	0.16
9.8 ppm NO_x	9.9 ppm	9.9 ppm	9.89
0.0 ppm CO	1.6 ppm	1.7 ppm	1.63
11.8 ppm CO	11.9 ppm	11.9 ppm	11.89
0.0 ppm THC	0.0 ppm	-0.1 ppm	-0.10
5.0 ppm THC	5.0 ppm	4.9 ppm	4.93

Mean Reference Values:	Corrected Results:	Basis:
13.61 percent O_2	**13.61** percent O_2	DRY
8.3 ppm NO_x	**8.3** ppm NO_x	DRY
1.6 ppm CO	**1.6** ppm CO	DRY
-0.2 ppm THC	**-0.7** ppm THC	WET

Emission Calculations:

0.0246 NO_x Lbs/mmBtu from O_2
-0.0022 THC Lbs/mmBtu from O_2
0.0029 CO Lbs/mmBtu from O_2
37.40 NO_x Lbs/Hr from O_2
-3.38 THC Lbs/Hr from O_2
4.44 CO Lbs/Hr from O_2

6.7 NOx @ 15% O2 from O2
-0.6 THC @ 15% O2 from O2
1.3 CO @ 15% O2 from O2

Bwa: **15.00 %**
Bws: **15.00 %**
Fuel Analysis: **948 Btu/Cu-Ft**
Oxygen Correction: **15.0 %**
Fuel Flow: **1603800 Cu-Ft/Hr**

Fuel Factors:
1040 scf/mmBtu
8710 dscf/mmBtu
10610 wscf/mmBtu

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Complilance 100% Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 9

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.03 %	0.02 %	0.02
13.00 percent O_2	13.00 %	13.03 %	13.02
0.0 ppm NO_X	0.2 ppm	0.1 ppm	0.15
9.8 ppm NO_X	9.9 ppm	9.8 ppm	9.85
0.0 ppm CO	1.7 ppm	1.8 ppm	1.74
11.8 ppm CO	11.9 ppm	12.0 ppm	11.94
0.0 ppm THC	-0.1 ppm	-0.2 ppm	-0.19
5.0 ppm THC	4.9 ppm	4.9 ppm	4.87

Mean Reference Values:	Corrected Results:	Basis:
13.63 percent O_2	**13.63** percent O_2	DRY
8.3 ppm NO_X	**8.3** ppm NO_X	DRY
1.7 ppm CO	**1.7** ppm CO	DRY
-0.3 ppm THC	**-1.0** ppm THC	WET

Emission Calculations:

0.0248 NO_X Lbs/mmBtu from O_2
-0.0033 THC Lbs/mmBtu from O_2
0.0030 CO Lbs/mmBtu from O_2
37.72 NO_X Lbs/Hr from O_2
-5.08 THC Lbs/Hr from O_2
4.62 CO Lbs/Hr from O_2

6.7 NOx @ 15% O2 from O2
-1.0 THC @ 15% O2 from O2
1.4 CO @ 15% O2 from O2

Bwa: **15.00 %**
Bws: **15.00 %**
Fuel Analysis: **948 Btu/Cu-Ft**
Oxygen Correction: **15.0 %**
Fuel Flow: **1603800 Cu-Ft/Hr**

Fuel Factors:
1040 scf/mmBtu
8710 dscf/mmBtu
10610 wscf/mmBtu

Run Number	Date	Time	3 O2	1 NOX	2 CO	6 THC
1	6/17/2003	15:00:30	13.55	8.3	1.7	-0.1
1	6/17/2003	15:01:30	13.54	8.3	1.6	-0.1
1	6/17/2003	15:02:30	13.55	8.3	1.6	-0.1
1	6/17/2003	15:03:30	13.53	8.3	1.6	-0.1
1	6/17/2003	15:04:30	13.52	8.3	1.6	-0.1
1	6/17/2003	15:05:30	13.55	8.3	1.6	-0.1
1	6/17/2003	15:06:30	13.54	8.4	1.6	-0.1
1	6/17/2003	15:07:30	13.51	8.3	1.6	-0.1
1	6/17/2003	15:08:30	13.57	8.3	1.6	-0.1
1	6/17/2003	15:09:30	13.55	8.4	1.7	-0.1
1	6/17/2003	15:10:30	13.53	8.4	1.7	-0.1
1	6/17/2003	15:11:30	13.52	8.4	1.6	-0.1
1	6/17/2003	15:12:30	13.56	8.4	1.6	-0.1
1	6/17/2003	15:13:30	13.54	8.4	1.7	-0.1
1	6/17/2003	15:14:30	13.53	8.4	1.7	-0.1
1	6/17/2003	15:15:30	13.55	8.4	1.7	-0.1
1	6/17/2003	15:16:30	13.55	8.4	1.7	-0.1
1	6/17/2003	15:17:30	13.55	8.4	1.7	-0.1
1	6/17/2003	15:18:30	13.56	8.4	1.7	-0.1
1	6/17/2003	15:19:30	13.56	8.4	1.7	-0.1
1	6/17/2003	15:20:30	13.56	8.5	1.8	-0.1
2	6/17/2003	15:21:30	13.55	8.3	1.7	0.0
2	6/17/2003	15:35:30	13.55	8.3	1.7	0.0
2	6/17/2003	15:36:30	13.53	8.3	1.7	0.0
2	6/17/2003	15:37:30	13.56	8.3	1.6	0.0
2	6/17/2003	15:38:30	13.56	8.3	1.7	0.0
2	6/17/2003	15:39:30	13.56	8.3	1.7	-0.1
2	6/17/2003	15:40:30	13.56	8.3	1.7	-0.1
2	6/17/2003	15:41:30	13.56	8.3	1.7	-0.1
2	6/17/2003	15:42:30	13.56	8.3	1.7	-0.1
2	6/17/2003	15:43:30	13.57	8.4	1.8	0.0
2	6/17/2003	15:44:30	13.57	8.4	1.8	-0.1
2	6/17/2003	15:45:30	13.57	8.4	1.8	-0.1
2	6/17/2003	15:46:30	13.56	8.3	1.8	-0.1
2	6/17/2003	15:47:30	13.43	8.3	1.8	-0.1
2	6/17/2003	15:48:30	13.35	8.4	1.8	-0.1
2	6/17/2003	15:49:30	13.30	8.3	1.8	-0.1
2	6/17/2003	15:50:30	13.31	8.3	1.7	-0.1
2	6/17/2003	15:51:30	13.31	8.3	1.8	-0.1
2	6/17/2003	15:52:30	13.32	8.3	1.8	-0.1
2	6/17/2003	15:53:30	13.38	8.3	1.8	-0.1
2	6/17/2003	15:54:30	13.37	8.3	1.8	-0.1
3	6/17/2003	15:55:30	13.35	8.2	1.7	0.0
3	6/17/2003	16:08:30	13.30	8.3	1.7	0.1
3	6/17/2003	16:09:30	13.28	8.3	1.7	0.1
3	6/17/2003	16:10:30	13.28	8.3	1.7	0.1
3	6/17/2003	16:11:30	13.28	8.3	1.7	0.1
3	6/17/2003	16:12:30	13.27	8.3	1.7	0.1

3	6/17/2003	16:13:30	13.28	8.3	1.7	0.1
3	6/17/2003	16:14:30	13.29	8.3	1.7	0.1
3	6/17/2003	16:15:30	13.29	8.3	1.7	0.1
3	6/17/2003	16:16:30	13.28	8.3	1.7	0.1
3	6/17/2003	16:17:30	13.30	8.3	1.7	0.1
3	6/17/2003	16:18:30	13.31	8.3	1.7	0.1
3	6/17/2003	16:19:30	13.30	8.3	1.7	0.1
3	6/17/2003	16:20:30	13.33	8.3	1.7	0.1
3	6/17/2003	16:21:30	13.31	8.3	1.8	0.1
3	6/17/2003	16:22:30	13.32	8.3	1.8	0.1
3	6/17/2003	16:23:30	13.35	8.3	1.7	0.1
3	6/17/2003	16:24:30	13.34	8.3	1.7	0.1
3	6/17/2003	16:25:30	13.37	8.3	1.7	0.1
3	6/17/2003	16:26:30	13.33	8.3	1.8	0.1
3	6/17/2003	16:27:30	13.36	8.3	1.8	0.1
4	6/17/2003	16:28:30	13.51	8.3	1.7	0.1
4	6/17/2003	16:47:15	13.57	8.3	1.8	0.2
4	6/17/2003	16:48:15	13.57	8.3	1.8	0.2
4	6/17/2003	16:49:15	13.57	8.3	1.8	0.2
4	6/17/2003	16:50:15	13.58	8.3	1.8	0.2
4	6/17/2003	16:51:15	13.60	8.3	1.8	0.1
4	6/17/2003	16:52:15	13.61	8.4	1.8	0.1
4	6/17/2003	16:53:15	13.61	8.3	1.8	0.2
4	6/17/2003	16:54:15	13.61	8.3	1.8	0.2
4	6/17/2003	16:55:15	13.61	8.3	1.8	0.1
4	6/17/2003	16:56:15	13.61	8.3	1.8	0.1
4	6/17/2003	16:57:15	13.62	8.3	1.8	0.1
4	6/17/2003	16:58:15	13.61	8.3	1.8	0.1
4	6/17/2003	16:59:15	13.62	8.3	1.8	0.1
4	6/17/2003	17:00:15	13.62	8.3	1.8	0.1
4	6/17/2003	17:01:15	13.60	8.3	1.8	0.1
4	6/17/2003	17:02:15	13.60	8.3	1.8	0.1
4	6/17/2003	17:03:15	13.59	8.3	1.8	0.1
4	6/17/2003	17:04:15	13.61	8.3	1.8	0.1
4	6/17/2003	17:05:15	13.64	8.3	1.8	0.1
4	6/17/2003	17:06:15	13.64	8.3	1.8	0.1
5	6/17/2003	17:07:15	13.63	8.3	1.7	0.1
5	6/17/2003	17:21:15	13.60	8.3	1.5	0.2
5	6/17/2003	17:22:15	13.60	8.3	1.5	0.1
5	6/17/2003	17:23:15	13.60	8.3	1.5	0.1
5	6/17/2003	17:24:15	13.61	8.3	1.5	0.1
5	6/17/2003	17:25:15	13.60	8.4	1.5	0.1
5	6/17/2003	17:26:15	13.57	8.3	1.5	0.1
5	6/17/2003	17:27:15	13.57	8.2	1.5	0.1
5	6/17/2003	17:28:15	13.57	8.2	1.5	0.1
5	6/17/2003	17:29:15	13.57	8.2	1.6	0.1
5	6/17/2003	17:30:15	13.59	8.2	1.6	0.1
5	6/17/2003	17:31:15	13.59	8.2	1.5	0.0
5	6/17/2003	17:32:15	13.59	8.2	1.5	0.0
5	6/17/2003	17:33:15	13.60	8.2	1.5	0.0
5	6/17/2003	17:34:15	13.60	8.2	1.5	0.0
5	6/17/2003	17:35:15	13.59	8.2	1.5	0.0

5	6/17/2003	17:36:15	13.59	8.1	1.6	0.0
5	6/17/2003	17:37:15	13.60	8.2	1.5	0.0
5	6/17/2003	17:38:15	13.60	8.2	1.5	0.0
5	6/17/2003	17:39:15	13.60	8.2	1.5	0.0
5	6/17/2003	17:40:15	13.60	8.1	1.5	0.0
6	6/17/2003	17:41:15	13.60	8.1	1.5	0.0
6	6/17/2003	17:55:00	13.59	8.2	1.5	0.1
6	6/17/2003	17:56:00	13.59	8.2	1.5	0.0
6	6/17/2003	17:57:00	13.59	8.3	1.4	0.0
6	6/17/2003	17:58:00	13.59	8.3	1.5	0.0
6	6/17/2003	17:59:00	13.60	8.3	1.4	0.0
6	6/17/2003	18:00:00	13.60	8.3	1.5	0.0
6	6/17/2003	18:01:00	13.60	8.3	1.4	0.0
6	6/17/2003	18:02:00	13.60	8.3	1.4	0.0
6	6/17/2003	18:03:00	13.61	8.2	1.5	0.0
6	6/17/2003	18:04:00	13.61	8.2	1.5	0.0
6	6/17/2003	18:05:00	13.61	8.2	1.5	-0.1
6	6/17/2003	18:06:00	13.61	8.3	1.5	-0.1
6	6/17/2003	18:07:00	13.62	8.3	1.5	-0.1
6	6/17/2003	18:08:00	13.61	8.3	1.5	-0.1
6	6/17/2003	18:09:00	13.61	8.3	1.5	-0.1
6	6/17/2003	18:10:00	13.61	8.3	1.5	-0.1
6	6/17/2003	18:11:00	13.61	8.3	1.5	-0.1
6	6/17/2003	18:12:00	13.61	8.3	1.5	-0.1
6	6/17/2003	18:13:00	13.61	8.3	1.5	-0.1
6	6/17/2003	18:14:00	13.62	8.3	1.5	-0.1
6	6/17/2003	18:15:00	13.62	8.3	1.5	-0.1
7	6/17/2003	18:28:00	13.60	8.2	1.5	-0.1
7	6/17/2003	18:29:00	13.61	8.2	1.5	-0.1
7	6/17/2003	18:30:00	13.58	8.3	1.6	-0.1
7	6/17/2003	18:31:00	13.55	8.3	1.5	-0.1
7	6/17/2003	18:32:00	13.56	8.3	1.5	-0.1
7	6/17/2003	18:33:00	13.58	8.3	1.6	-0.1
7	6/17/2003	18:34:00	13.59	8.3	1.6	-0.1
7	6/17/2003	18:35:00	13.59	8.3	1.6	-0.2
7	6/17/2003	18:36:00	13.59	8.3	1.6	-0.2
7	6/17/2003	18:37:00	13.59	8.3	1.6	-0.2
7	6/17/2003	18:38:00	13.59	8.3	1.6	-0.2
7	6/17/2003	18:39:00	13.60	8.3	1.6	-0.2
7	6/17/2003	18:40:00	13.60	8.3	1.6	-0.2
7	6/17/2003	18:41:00	13.60	8.3	1.6	-0.2
7	6/17/2003	18:42:00	13.60	8.3	1.6	-0.2
7	6/17/2003	18:43:00	13.60	8.3	1.6	-0.2
7	6/17/2003	18:44:00	13.66	8.3	1.6	-0.2
7	6/17/2003	18:45:00	13.63	8.3	1.6	-0.2
7	6/17/2003	18:46:00	13.61	8.3	1.6	-0.2
7	6/17/2003	18:47:00	13.60	8.3	1.6	-0.2
7	6/17/2003	18:48:00	13.61	8.3	1.6	-0.2
8	6/17/2003	19:02:30	13.59	8.2	1.6	-0.1
8	6/17/2003	19:03:30	13.58	8.2	1.6	-0.1
8	6/17/2003	19:04:30	13.58	8.2	1.6	-0.2
8	6/17/2003	19:05:30	13.58	8.2	1.6	-0.2

8	6/17/2003	19:06:30	13.58	8.2	1.6	-0.2
8	6/17/2003	19:07:30	13.62	8.2	1.6	-0.2
8	6/17/2003	19:08:30	13.63	8.3	1.6	-0.2
8	6/17/2003	19:09:30	13.63	8.3	1.6	-0.2
8	6/17/2003	19:10:30	13.63	8.3	1.6	-0.2
8	6/17/2003	19:11:30	13.62	8.2	1.6	-0.2
8	6/17/2003	19:12:30	13.62	8.2	1.6	-0.2
8	6/17/2003	19:13:30	13.63	8.3	1.6	-0.2
8	6/17/2003	19:14:30	13.63	8.3	1.6	-0.2
8	6/17/2003	19:15:30	13.60	8.3	1.6	-0.2
8	6/17/2003	19:16:30	13.59	8.3	1.6	-0.2
8	6/17/2003	19:17:30	13.59	8.3	1.6	-0.2
8	6/17/2003	19:18:30	13.59	8.3	1.6	-0.2
8	6/17/2003	19:19:30	13.59	8.3	1.6	-0.3
8	6/17/2003	19:20:30	13.61	8.2	1.6	-0.3
8	6/17/2003	19:21:30	13.64	8.2	1.7	-0.3
8	6/17/2003	19:22:30	13.63	8.2	1.6	-0.3
9	6/17/2003	19:23:30	13.63	8.2	1.6	-0.2
9	6/17/2003	19:37:15	13.62	8.2	1.6	-0.3
9	6/17/2003	19:38:15	13.62	8.3	1.6	-0.3
9	6/17/2003	19:39:15	13.62	8.3	1.6	-0.3
9	6/17/2003	19:40:15	13.62	8.3	1.6	-0.3
9	6/17/2003	19:41:15	13.62	8.3	1.6	-0.3
9	6/17/2003	19:42:15	13.62	8.3	1.6	-0.3
9	6/17/2003	19:43:15	13.62	8.3	1.6	-0.3
9	6/17/2003	19:44:15	13.64	8.3	1.6	-0.4
9	6/17/2003	19:45:15	13.62	8.3	1.6	-0.3
9	6/17/2003	19:46:15	13.60	8.3	1.7	-0.3
9	6/17/2003	19:47:15	13.59	8.3	1.7	-0.3
9	6/17/2003	19:48:15	13.60	8.3	1.7	-0.3
9	6/17/2003	19:49:15	13.61	8.3	1.7	-0.3
9	6/17/2003	19:50:15	13.62	8.3	1.7	-0.3
9	6/17/2003	19:51:15	13.65	8.3	1.7	-0.3
9	6/17/2003	19:52:15	13.65	8.3	1.7	-0.4
9	6/17/2003	19:53:15	13.64	8.3	1.7	-0.4
9	6/17/2003	19:54:15	13.64	8.3	1.7	-0.4
9	6/17/2003	19:55:15	13.64	8.3	1.7	-0.4
9	6/17/2003	19:56:15	13.64	8.3	1.7	-0.4
End						
End	6/17/2003	0.83142	13.64	8.3	1.7	-0.4

Run Averages

Run Averages	O2	NOX	CO	THC
1	13.54	8.4	1.7	-0.1
2	13.48	8.3	1.73	-0.05
3	13.31	8.3	1.7	0.1
4	13.60	8.3	1.8	0.1
5	13.59	8.2	1.5	0.1
6	13.60	8.3	1.5	0.0
7	13.60	8.3	1.6	-0.2
8	13.61	8.3	1.6	-0.2
9	13.63	8.3	1.7	-0.3

Oil

50, 70, and 85 % of Base Load

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
50, 70, 85% NOX Compliance on Oil
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 1

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.01 %	0.00 %	0.00
13.00 percent O_2	12.86 %	12.86 %	12.86
0.0 ppm NO_x	0.3 ppm	0.3 ppm	0.34
73.5 ppm NO_x	72.0 ppm	71.8 ppm	71.91

Mean Reference Values:	Corrected Results:	Basis:
12.89 percent O_2	**12.90** percent O_2	DRY
50.6 ppm NO_x	**50.6** ppm NO_x	DRY

Emission Calculations:

37.3 NOx @ 15% O2 from O2

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
50, 70, 85% NOX Compliance on Oil
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 2

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.00 %	-0.01 %	0.00
13.00 percent O_2	12.86 %	12.87 %	12.87
0.0 ppm NO_X	0.3 ppm	0.4 ppm	0.37
73.5 ppm NO_X	71.8 ppm	71.6 ppm	71.70

Mean Reference Values:	**Corrected Results:**	**Basis:**
12.89 percent O_2	**12.90** percent O_2	DRY
50.2 ppm NO_X	**50.2** ppm NO_X	DRY

Emission Calculations:

37.0 NOx @ 15% O2 from O2

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
50, 70, 85% NOX Compliance on Oil
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 3

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	-0.01 %	0.01 %	0.00
13.00 percent O_2	12.87 %	12.86 %	12.86
0.0 ppm NO_x	0.4 ppm	0.4 ppm	0.41
73.5 ppm NO_x	71.6 ppm	71.4 ppm	71.50

Mean Reference Values:	Corrected Results:	Basis:
12.89 percent O_2	**12.90** percent O_2	DRY
50.1 ppm NO_x	**50.1** ppm NO_x	DRY

Emission Calculations:

36.9 NOx @ 15% O2 from O2

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
50, 70, 85% NOX Compliance on Oil
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 4

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.01 %	0.00 %	0.01
13.00 percent O_2	12.86 %	12.87 %	12.86
0.0 ppm NO_x	0.4 ppm	0.3 ppm	0.37
73.5 ppm NO_x	71.4 ppm	71.6 ppm	71.48

Mean Reference Values:	**Corrected Results:**	**Basis:**
12.61 percent O_2	**12.60** percent O_2	DRY
50.4 ppm NO_x	**50.4** ppm NO_x	DRY

Emission Calculations:

35.8 NOx @ 15% O2 from O2

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
50, 70, 85% NOX Compliance on Oil
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 5

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.00 %	-0.01 %	0.00
13.00 percent O_2	12.87 %	12.85 %	12.86
0.0 ppm NO_X	0.3 ppm	0.4 ppm	0.35
73.5 ppm NO_X	71.6 ppm	71.5 ppm	71.52

Mean Reference Values:	**Corrected Results:**	**Basis:**
12.61 percent O_2	**12.60** percent O_2	DRY
51.4 ppm NO_X	**51.4** ppm NO_X	DRY

Emission Calculations:

36.5 NOx @ 15% O2 from O2

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
50, 70, 85% NOX Compliance on Oil
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 6

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	-0.01 %	-0.01 %	-0.01
13.00 percent O_2	12.85 %	12.86 %	12.86
0.0 ppm NO_X	0.4 ppm	0.3 ppm	0.35
73.5 ppm NO_X	71.5 ppm	71.6 ppm	71.52

Mean Reference Values:	**Corrected Results:**	**Basis:**
12.61 percent O_2	**12.60** percent O_2	DRY
51.4 ppm NO_X	**51.4** ppm NO_X	DRY

Emission Calculations:

36.5 NOx @ 15% O2 from O2

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
50, 70, 85% NOX Compliance on Oil
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 7

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	-0.01 %	0.01 %	0.00
13.00 percent O_2	12.86 %	12.88 %	12.87
0.0 ppm NO_X	0.3 ppm	0.4 ppm	0.34
73.5 ppm NO_X	71.6 ppm	71.4 ppm	71.47

Mean Reference Values:	**Corrected Results:**	**Basis:**
12.51 percent O_2	**12.50** percent O_2	DRY
52.2 ppm NO_X	**52.2** ppm NO_X	DRY

Emission Calculations:

36.7 NOx @ 15% O2 from O2

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
50, 70, 85% NOX Compliance on Oil
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 8

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.01 %	-0.02 %	-0.01
13.00 percent O_2	12.88 %	12.86 %	12.87
0.0 ppm NO_x	0.4 ppm	0.4 ppm	0.41
73.5 ppm NO_x	71.4 ppm	71.2 ppm	71.31

Mean Reference Values:	**Corrected Results:**	**Basis:**
12.50 percent O_2	**12.50** percent O_2	DRY
51.8 ppm NO_x	**51.8** ppm NO_x	DRY

Emission Calculations:

36.4 NOx @ 15% O2 from O2

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
50, 70, 85% NOX Compliance on Oil
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 9

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	-0.02 %	-0.01 %	-0.02
13.00 percent O_2	12.86 %	12.85 %	12.86
0.0 ppm NO_X	0.4 ppm	0.3 ppm	0.38
73.5 ppm NO_X	71.2 ppm	71.5 ppm	71.37

Mean Reference Values:	**Corrected Results:**	**Basis:**
12.51 percent O_2	**12.50** percent O_2	DRY
51.9 ppm NO_X	**51.9** ppm NO_X	DRY

Emission Calculations:

36.5 NOx @ 15% O2 from O2

Run Number	Date	Time	3 O2	1 NOX
1	6/18/2003	8:53:45	12.87	50.6
1	6/18/2003	8:54:45	12.88	50.6
1	6/18/2003	8:55:45	12.88	50.7
1	6/18/2003	8:56:45	12.89	51.4
1	6/18/2003	8:57:45	12.89	50.8
1	6/18/2003	8:58:45	12.89	50.7
1	6/18/2003	8:59:45	12.89	50.7
1	6/18/2003	9:00:45	12.90	50.9
1	6/18/2003	9:01:45	12.90	50.5
1	6/18/2003	9:02:45	12.89	50.4
1	6/18/2003	9:03:45	12.89	51.0
1	6/18/2003	9:04:45	12.89	50.3
1	6/18/2003	9:05:45	12.88	50.5
1	6/18/2003	9:06:45	12.88	50.8
1	6/18/2003	9:07:45	12.89	50.8
1	6/18/2003	9:08:45	12.88	50.8
1	6/18/2003	9:09:45	12.89	50.4
1	6/18/2003	9:10:45	12.89	50.4
1	6/18/2003	9:11:45	12.89	50.4
1	6/18/2003	9:12:45	12.89	50.1
1	6/18/2003	9:13:45	12.90	50.2
1	6/18/2003	9:14:45	12.89	50.3
1	6/18/2003	9:15:45	12.92	50.6
1	6/18/2003	9:16:45	12.91	49.9
2	6/18/2003	9:17:45	12.87	50.2
2	6/18/2003	9:28:45	12.87	50.3
2	6/18/2003	9:29:45	12.88	50.5
2	6/18/2003	9:30:45	12.89	50.1
2	6/18/2003	9:31:45	12.89	50.1
2	6/18/2003	9:32:45	12.87	50.1
2	6/18/2003	9:33:45	12.85	50.2
2	6/18/2003	9:34:45	12.85	50.3
2	6/18/2003	9:35:45	12.81	50.3
2	6/18/2003	9:36:45	12.84	50.3
2	6/18/2003	9:37:45	12.88	50.2
2	6/18/2003	9:38:45	12.86	50.3
2	6/18/2003	9:39:45	12.88	50.5
2	6/18/2003	9:40:45	12.91	50.1
2	6/18/2003	9:41:45	12.89	50.2
2	6/18/2003	9:42:45	12.90	50.5
2	6/18/2003	9:43:45	12.93	49.9
2	6/18/2003	9:44:45	12.89	50.0
2	6/18/2003	9:45:45	12.91	50.3
2	6/18/2003	9:46:45	12.93	50.2
2	6/18/2003	9:47:45	12.92	50.5
2	6/18/2003	9:48:45	12.92	50.3
2	6/18/2003	9:49:45	13.02	49.7
2	6/18/2003	9:50:45	12.94	49.8

3	6/18/2003	9:51:45	12.86	50.3
3	6/18/2003	10:04:15	12.85	50.1
3	6/18/2003	10:05:15	12.86	50.5
3	6/18/2003	10:06:15	12.84	50.1
3	6/18/2003	10:07:15	12.86	50.3
3	6/18/2003	10:08:15	12.87	50.3
3	6/18/2003	10:09:15	12.88	50.1
3	6/18/2003	10:10:15	12.89	50.1
3	6/18/2003	10:11:15	12.89	50.1
3	6/18/2003	10:12:15	12.89	50.1
3	6/18/2003	10:13:15	12.89	50.1
3	6/18/2003	10:14:15	12.89	49.9
3	6/18/2003	10:15:15	12.89	50.2
3	6/18/2003	10:16:15	12.90	50.0
3	6/18/2003	10:17:15	12.90	50.1
3	6/18/2003	10:18:15	12.89	49.8
3	6/18/2003	10:19:15	12.92	49.9
3	6/18/2003	10:20:15	12.91	49.8
3	6/18/2003	10:21:15	12.92	50.4
3	6/18/2003	10:22:15	12.97	49.9
3	6/18/2003	10:23:15	12.89	49.9
3	6/18/2003	10:24:15	12.89	50.1
3	6/18/2003	10:25:15	12.94	50.0
3	6/18/2003	10:26:15	12.91	49.7
4	6/18/2003	10:27:15	12.82	50.2
4	6/18/2003	10:41:45	12.61	50.7
4	6/18/2003	10:42:45	12.59	50.2
4	6/18/2003	10:43:45	12.60	50.0
4	6/18/2003	10:44:45	12.59	50.0
4	6/18/2003	10:45:45	12.61	50.0
4	6/18/2003	10:46:45	12.61	50.2
4	6/18/2003	10:47:45	12.61	50.3
4	6/18/2003	10:48:45	12.61	50.2
4	6/18/2003	10:49:45	12.62	50.3
4	6/18/2003	10:50:45	12.61	50.5
4	6/18/2003	10:51:45	12.62	50.3
4	6/18/2003	10:52:45	12.63	50.4
4	6/18/2003	10:53:45	12.61	50.9
4	6/18/2003	10:54:45	12.61	50.8
4	6/18/2003	10:55:45	12.61	50.7
4	6/18/2003	10:56:45	12.61	50.8
4	6/18/2003	10:57:45	12.61	50.4
4	6/18/2003	10:58:45	12.61	50.4
4	6/18/2003	10:59:45	12.61	50.6
4	6/18/2003	11:00:45	12.61	50.3
4	6/18/2003	11:01:45	12.60	50.3
4	6/18/2003	11:02:45	12.61	50.4
4	6/18/2003	11:03:45	12.62	51.0
4	6/18/2003	11:04:45	12.61	50.8
5	6/18/2003	11:05:45	12.59	50.5
5	6/18/2003	11:18:30	12.59	50.8
5	6/18/2003	11:19:30	12.61	51.0

5	6/18/2003	11:20:30	12.64	51.7
5	6/18/2003	11:21:30	12.61	51.2
5	6/18/2003	11:22:30	12.61	51.6
5	6/18/2003	11:23:30	12.60	51.8
5	6/18/2003	11:24:30	12.58	51.5
5	6/18/2003	11:25:30	12.60	51.2
5	6/18/2003	11:26:30	12.60	51.6
5	6/18/2003	11:27:30	12.60	51.5
5	6/18/2003	11:28:30	12.59	51.5
5	6/18/2003	11:29:30	12.61	51.4
5	6/18/2003	11:30:30	12.61	51.7
5	6/18/2003	11:31:30	12.60	51.3
5	6/18/2003	11:32:30	12.61	51.2
5	6/18/2003	11:33:30	12.63	51.6
5	6/18/2003	11:34:30	12.60	51.6
5	6/18/2003	11:35:30	12.59	51.4
5	6/18/2003	11:36:30	12.62	51.2
5	6/18/2003	11:37:30	12.61	51.7
5	6/18/2003	11:38:30	12.62	51.8
5	6/18/2003	11:39:30	12.62	51.7
5	6/18/2003	11:40:30	12.62	51.1
5	6/18/2003	11:41:30	12.64	51.6
6	6/18/2003	11:55:30	12.59	51.4
6	6/18/2003	11:56:30	12.61	51.4
6	6/18/2003	11:57:30	12.61	51.2
6	6/18/2003	11:58:30	12.61	50.7
6	6/18/2003	11:59:30	12.62	51.1
6	6/18/2003	12:00:30	12.62	51.1
6	6/18/2003	12:01:30	12.61	51.5
6	6/18/2003	12:02:30	12.60	50.8
6	6/18/2003	12:03:30	12.61	51.4
6	6/18/2003	12:04:30	12.62	51.6
6	6/18/2003	12:05:30	12.60	51.7
6	6/18/2003	12:06:30	12.62	51.6
6	6/18/2003	12:07:30	12.60	51.8
6	6/18/2003	12:08:30	12.61	51.6
6	6/18/2003	12:09:30	12.61	51.5
6	6/18/2003	12:10:30	12.61	51.9
6	6/18/2003	12:11:30	12.60	51.4
6	6/18/2003	12:12:30	12.61	51.5
6	6/18/2003	12:13:30	12.61	51.6
6	6/18/2003	12:14:30	12.61	51.5
6	6/18/2003	12:15:30	12.60	51.1
6	6/18/2003	12:16:30	12.61	51.3
6	6/18/2003	12:17:30	12.62	51.3
6	6/18/2003	12:18:30	12.62	51.5
7	6/18/2003	12:19:30	12.56	51.7
7	6/18/2003	12:59:15	12.51	51.4
7	6/18/2003	13:00:15	12.50	51.8
7	6/18/2003	13:01:15	12.51	52.0
7	6/18/2003	13:02:15	12.51	52.4
7	6/18/2003	13:03:15	12.50	52.0

7	6/18/2003	13:04:15	12.51	52.1
7	6/18/2003	13:05:15	12.51	51.7
7	6/18/2003	13:06:15	12.51	52.0
7	6/18/2003	13:07:15	12.51	52.4
7	6/18/2003	13:08:15	12.51	52.3
7	6/18/2003	13:09:15	12.51	52.5
7	6/18/2003	13:10:15	12.51	51.8
7	6/18/2003	13:11:15	12.52	52.1
7	6/18/2003	13:12:15	12.51	52.2
7	6/18/2003	13:13:15	12.52	52.0
7	6/18/2003	13:14:15	12.53	52.5
7	6/18/2003	13:15:15	12.52	52.7
7	6/18/2003	13:16:15	12.51	52.3
7	6/18/2003	13:17:15	12.50	52.4
7	6/18/2003	13:18:15	12.52	52.7
7	6/18/2003	13:19:15	12.54	52.8
7	6/18/2003	13:20:15	12.50	52.7
7	6/18/2003	13:21:15	12.50	52.2
8	6/18/2003	13:22:15	12.50	51.9
8	6/18/2003	13:33:15	12.49	51.9
8	6/18/2003	13:34:15	12.49	51.4
8	6/18/2003	13:35:15	12.50	52.2
8	6/18/2003	13:36:15	12.50	52.1
8	6/18/2003	13:37:15	12.50	51.9
8	6/18/2003	13:38:15	12.51	52.5
8	6/18/2003	13:39:15	12.49	51.6
8	6/18/2003	13:40:15	12.50	51.5
8	6/18/2003	13:41:15	12.53	52.1
8	6/18/2003	13:42:15	12.51	52.2
8	6/18/2003	13:43:15	12.49	51.3
8	6/18/2003	13:44:15	12.49	51.4
8	6/18/2003	13:45:15	12.50	51.3
8	6/18/2003	13:46:15	12.52	51.4
8	6/18/2003	13:47:15	12.52	52.2
8	6/18/2003	13:48:15	12.49	51.9
8	6/18/2003	13:49:15	12.50	51.7
8	6/18/2003	13:50:15	12.52	51.5
8	6/18/2003	13:51:15	12.51	51.6
8	6/18/2003	13:52:15	12.50	51.3
8	6/18/2003	13:53:15	12.51	51.4
8	6/18/2003	13:54:15	12.54	52.1
8	6/18/2003	13:55:15	12.51	52.3
9	6/18/2003	13:56:15	12.50	52.2
9	6/18/2003	14:32:30	12.50	52.3
9	6/18/2003	14:33:30	12.52	51.9
9	6/18/2003	14:34:30	12.54	51.7
9	6/18/2003	14:35:30	12.51	51.8
9	6/18/2003	14:36:30	12.52	51.3
9	6/18/2003	14:37:30	12.51	52.1
9	6/18/2003	14:38:30	12.53	52.1
9	6/18/2003	14:39:30	12.52	51.8
9	6/18/2003	14:40:30	12.51	52.3

9	6/18/2003	14:41:30	12.49	51.6
9	6/18/2003	14:42:30	12.49	51.2
9	6/18/2003	14:43:30	12.49	51.2
9	6/18/2003	14:44:30	12.54	51.5
9	6/18/2003	14:45:30	12.54	52.4
9	6/18/2003	14:46:30	12.52	52.1
9	6/18/2003	14:47:30	12.52	51.8
9	6/18/2003	14:48:30	12.50	51.9
9	6/18/2003	14:49:30	12.49	52.2
9	6/18/2003	14:50:30	12.49	52.2
9	6/18/2003	14:51:30	12.49	51.9
9	6/18/2003	14:52:30	12.51	51.7
9	6/18/2003	14:53:30	12.50	52.3
9	6/18/2003	14:54:30	12.51	52.3
9	6/18/2003	14:55:30	12.50	52.4
End				

Minute Averages

Run	O2	NOX
1	12.89	50.6
2	12.89	50.21
3	12.89	50.08
4	12.62	50.43
5	12.61	51.42
6	12.61	51.40
7	12.51	52.20
8	12.50	51.78
9	12.51	51.93

Oil

Base Load

Compliance Summary

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Oil Compliance, 100% Load
Date: 6/18/2003

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run Number	Units	Run 1	Run 2	Run 3	Average	Standard
Date of Run	2003	18-Jun	18-Jun	18-Jun		
Start Time		15:46:00	17:02:00	18:16:00		
Stop Time		16:46:00	18:02:00	19:16:00		
Unit Load	MW	169.00	169.00	169.00	169.0	
Fuel Flow	Lbs/Hr	92751.00	92449.00	92449.00	92549.7	
Fuel Heat Value	Btu/Lb	18234	18234	18234	18234	
O2	%, dry	12.50	12.50	12.50		
H20, assumed	%	15.0	15.0	15.0		
NO_X	Lbs/mmBtu	0.1460	0.1450	0.1430		
NO_X	ppmvd	53.3	53.2	52.5		
NO_X	ppm@15% O2	37.4	37.4	36.9	**37.2**	**42.0**
NO_X	Lbs/Hr[a]	246.92	244.43	241.06	**244.14**	**351.0**
CO	Lbs/mmBtu	0.0006	0.0005	0.0005		
CO	ppmvd	0.4	0.3	0.3	**0.3**	**20.0**
CO	Lbs/Hr[a]	1.01	0.84	0.84	**0.90**	**71.4**
Fuel Sulfur Content	%	0.0344	0.0344	0.0344	**0.03**	**0.05**
SO_2	Lbs/Hr[b]	63.81	63.60	63.60	**63.67**	**98.7**
THC	Lbs/mmBtu	-0.0003	-0.0005	-0.0005		
THC	ppmvw	-0.1	-0.2	-0.2	**-0.2**	**7.0**
THC	ppmvd[d]	-0.1	-0.2	-0.2		
THC	Lbs/Hr[a]	-0.51	-0.84	-0.84	**-0.73**	**16.2**
Opacity[c]	%	0.0	0.0	0.0	**0.0**	**10.0**

[a] Lbs/Hr = Pollutant Emission Rate (Lbs/mmBtu) x (Fuel Feed Rate (Lbs/Hr) x Fuel LHV (Btu/Lb)/1000)
[b] Lbs/Hr = 2.0 x Fuel Flow Rate (lbs/Hr) x (Fuel Sulfur Content (%)/100)
[c] Opacity is the surrogate for particulate emissions per permit condition A.16
[d] ppmvd = ppmvw x (1-(%H20/100))

Lbs/mmBtu = pollutant concentration (ppmvd) x conversion factor x F_d (9190 Oil) x (20.9 / (20.9 - O2 (percent dry))
Where: conversion factor= Nox (1.194 x 10-7); THC as Propane (1.142 x 10-7); CO (0.725 x 10-7)

Pollutant ppm @15% O2 = pollutant concentration (ppmvd) x (5.9/20.9 - O2 (percent, dry))

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Oil Complilance 100% Load
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 1

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.04 %	0.03 %	0.04
13.00 percent O_2	12.94 %	12.92 %	12.93
0.0 ppm NO_x	0.1 ppm	0.3 ppm	0.24
73.5 ppm NO_x	72.3 ppm	72.0 ppm	72.16
0.0 ppm CO	0.3 ppm	0.1 ppm	0.21
11.8 ppm CO	12.2 ppm	12.0 ppm	12.11
0.0 ppm THC	0.0 ppm	0.0 ppm	0.01
5.0 ppm THC	5.0 ppm	5.0 ppm	5.00

Mean Reference Values:	Corrected Results:	Basis:
12.53 percent O_2	**12.50** percent O_2	DRY
53.3 ppm NO_x	**53.3** ppm NO_x	DRY
0.4 ppm CO	**0.4** ppm CO	DRY
-0.1 ppm THC	**-0.1** ppm THC	WET

Emission Calculations:

0.1460 NO_x Lbs/mmBtu from O_2
-0.0003 THC Lbs/mmBtu from O_2
0.0006 CO Lbs/mmBtu from O_2
246.92 NO_x Lbs/Hr from O_2
-0.51 THC Lbs/Hr from O_2
1.01 CO Lbs/Hr from O_2

37.4 NOx @ 15% O2 from O2
-0.1 THC @ 15% O2 from O2
0.3 CO @ 15% O2 from O2

Bwa: **2.70 %**

Fuel Analysis: **18234 Btu/Lb**
Oxygen Correction: **15.00 %**
Fuel Flow: **92751 Lbs/Hr**

Fuel Factors:
1420 scf/mmBtu
9190 dscf/mmBtu
10320 wscf/mmBtu

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Oil Complilance 100% Load
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 2

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.03 %	0.02 %	0.03
13.00 percent O_2	12.92 %	12.90 %	12.91
0.0 ppm NO_x	0.3 ppm	0.4 ppm	0.35
73.5 ppm NO_x	72.0 ppm	71.9 ppm	71.98
0.0 ppm CO	0.1 ppm	0.1 ppm	0.08
11.8 ppm CO	12.0 ppm	12.0 ppm	11.99
0.0 ppm THC	0.0 ppm	0.0 ppm	0.00
5.0 ppm THC	5.0 ppm	5.0 ppm	5.00

Mean Reference Values:	Corrected Results:	Basis:
12.53 percent O_2	**12.50** percent O_2	DRY
53.2 ppm NO_x	**53.2** ppm NO_x	DRY
0.3 ppm CO	**0.3** ppm CO	DRY
-0.2 ppm THC	**-0.2** ppm THC	WET

Emission Calculations:

0.1450 NO_x Lbs/mmBtu from O_2
-0.0005 THC Lbs/mmBtu from O_2
0.0005 CO Lbs/mmBtu from O_2
244.43 NO_x Lbs/Hr from O_2
-0.84 THC Lbs/Hr from O_2
0.84 CO Lbs/Hr from O_2

37.4 NOx @ 15% O2 from O2
-0.1 THC @ 15% O2 from O2
0.2 CO @ 15% O2 from O2

Bwa: **2.70 %**

Fuel Analysis: **18234 Btu/Lb**
Oxygen Correction: **15.0 %**
Fuel Flow: **92449 Lbs/Hr**

Fuel Factors:
1420 scf/mmBtu
9190 dscf/mmBtu
10320 wscf/mmBtu

Calculation of Average Emissions

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Oil Complilance 100% Load
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 3

Calibration Gas Value	Initial Calibration	Final Calibration	Average
0.00 percent O_2	0.02 %	0.04 %	0.03
13.00 percent O_2	12.90 %	12.94 %	12.92
0.0 ppm NO_X	0.4 ppm	0.4 ppm	0.39
73.5 ppm NO_X	71.9 ppm	71.1 ppm	71.52
0.0 ppm CO	0.1 ppm	0.2 ppm	0.12
11.8 ppm CO	12.0 ppm	12.1 ppm	12.06
0.0 ppm THC	0.0 ppm	0.0 ppm	0.01
5.0 ppm THC	5.0 ppm	5.0 ppm	4.96

Mean Reference Values:	Corrected Results:	Basis:
12.54 percent O_2	**12.50** percent O_2	DRY
52.5 ppm NO_X	**52.5** ppm NO_X	DRY
0.3 ppm CO	**0.3** ppm CO	DRY
-0.2 ppm THC	**-0.2** ppm THC	WET

Emission Calculations:

0.1430 NO_X Lbs/mmBtu from O_2
-0.0005 THC Lbs/mmBtu from O_2
0.0005 CO Lbs/mmBtu from O_2
241.06 NO_X Lbs/Hr from O_2
-0.84 THC Lbs/Hr from O_2
0.84 CO Lbs/Hr from O_2

36.9 NOx @ 15% O2 from O2
-0.1 THC @ 15% O2 from O2
0.2 CO @ 15% O2 from O2

Bwa: **2.70 %**

Fuel Analysis: **18234 Btu/Lb**
Oxygen Correction: **15.0 %**
Fuel Flow: **92449 Lbs/Hr**

Fuel Factors:
1420 scf/mmBtu
9190 dscf/mmBtu
10320 wscf/mmBtu

Run Number	Date	Time	3 O2	1 NOX	2 CO	6 THC
1	6/18/2003	15:46:00	12.50	53.1	0.4	0.0
1	6/18/2003	15:47:00	12.51	53.5	0.4	0.0
1	6/18/2003	15:48:00	12.50	53.5	0.5	0.0
1	6/18/2003	15:49:01	12.50	53.3	0.5	-0.1
1	6/18/2003	15:50:00	12.50	53.5	0.4	-0.1
1	6/18/2003	15:51:00	12.50	53.6	0.4	-0.1
1	6/18/2003	15:52:00	12.49	53.6	0.4	-0.1
1	6/18/2003	15:53:00	12.50	53.6	0.4	-0.1
1	6/18/2003	15:54:00	12.51	53.7	0.5	-0.1
1	6/18/2003	15:55:00	12.49	53.8	0.4	-0.1
1	6/18/2003	15:56:00	12.56	53.4	0.4	-0.1
1	6/18/2003	15:57:00	12.56	53.9	0.4	-0.1
1	6/18/2003	15:58:00	12.53	53.6	0.4	-0.1
1	6/18/2003	15:59:00	12.52	53.4	0.4	-0.1
1	6/18/2003	16:00:00	12.52	53.8	0.4	-0.1
1	6/18/2003	16:01:00	12.51	53.3	0.4	-0.1
1	6/18/2003	16:02:00	12.51	53.1	0.5	-0.1
1	6/18/2003	16:03:00	12.51	53.6	0.4	-0.1
1	6/18/2003	16:04:00	12.56	53.5	0.4	-0.1
1	6/18/2003	16:05:00	12.57	53.9	0.4	-0.1
1	6/18/2003	16:06:00	12.55	53.8	0.4	-0.1
1	6/18/2003	16:07:00	12.55	53.3	0.4	-0.1
1	6/18/2003	16:08:00	12.53	53.7	0.4	-0.1
1	6/18/2003	16:09:00	12.53	53.0	0.4	-0.1
1	6/18/2003	16:10:00	12.51	53.5	0.4	-0.1
1	6/18/2003	16:11:00	12.51	53.4	0.4	-0.1
1	6/18/2003	16:12:00	12.51	53.0	0.4	-0.1
1	6/18/2003	16:13:00	12.52	53.2	0.4	-0.1
1	6/18/2003	16:14:00	12.52	53.6	0.4	-0.1
1	6/18/2003	16:15:00	12.52	53.1	0.4	-0.2
1	6/18/2003	16:16:00	12.54	53.1	0.4	-0.2
1	6/18/2003	16:17:00	12.54	53.6	0.4	-0.2
1	6/18/2003	16:18:00	12.54	53.5	0.4	-0.1
1	6/18/2003	16:19:00	12.51	53.4	0.4	-0.1
1	6/18/2003	16:20:00	12.50	53.6	0.4	-0.1
1	6/18/2003	16:21:00	12.50	53.1	0.4	-0.1
1	6/18/2003	16:22:00	12.51	52.8	0.4	-0.1
1	6/18/2003	16:23:00	12.52	53.3	0.4	-0.1
1	6/18/2003	16:24:00	12.52	53.3	0.4	-0.1
1	6/18/2003	16:25:00	12.52	53.4	0.4	-0.1
1	6/18/2003	16:26:00	12.53	53.4	0.4	-0.1
1	6/18/2003	16:27:00	12.54	53.3	0.4	-0.1
1	6/18/2003	16:28:00	12.53	53.0	0.4	-0.1
1	6/18/2003	16:29:00	12.55	53.3	0.4	-0.2
1	6/18/2003	16:30:00	12.56	52.7	0.3	-0.2
1	6/18/2003	16:31:00	12.57	53.2	0.3	-0.2
1	6/18/2003	16:32:00	12.58	52.6	0.3	-0.2
1	6/18/2003	16:33:00	12.58	52.5	0.3	-0.2

1	6/18/2003	16:34:00	12.58	52.7	0.3	-0.2
1	6/18/2003	16:35:00	12.58	53.1	0.4	-0.1
1	6/18/2003	16:36:00	12.58	52.7	0.4	-0.1
1	6/18/2003	16:37:00	12.57	53.2	0.4	-0.2
1	6/18/2003	16:38:00	12.54	52.5	0.3	-0.2
1	6/18/2003	16:39:00	12.52	52.0	0.3	-0.2
1	6/18/2003	16:40:00	12.54	52.3	0.3	-0.2
1	6/18/2003	16:41:00	12.55	52.9	0.3	-0.2
1	6/18/2003	16:42:00	12.53	52.8	0.3	-0.2
1	6/18/2003	16:43:00	12.54	52.9	0.3	-0.2
1	6/18/2003	16:44:00	12.55	53.5	0.3	-0.2
1	6/18/2003	16:45:00	12.55	53.3	0.3	-0.2
2	6/18/2003	17:02:00	12.52	52.9	0.3	-0.1
2	6/18/2003	17:03:00	12.49	53.1	0.3	-0.1
2	6/18/2003	17:04:00	12.51	52.6	0.3	-0.1
2	6/18/2003	17:05:00	12.50	53.4	0.3	-0.2
2	6/18/2003	17:06:00	12.56	53.1	0.3	-0.2
2	6/18/2003	17:07:00	12.55	53.1	0.3	-0.2
2	6/18/2003	17:08:00	12.52	53.6	0.4	-0.2
2	6/18/2003	17:09:00	12.52	53.1	0.3	-0.2
2	6/18/2003	17:10:00	12.50	53.8	0.3	-0.2
2	6/18/2003	17:11:00	12.51	54.1	0.3	-0.2
2	6/18/2003	17:12:00	12.51	54.0	0.3	-0.2
2	6/18/2003	17:13:00	12.51	54.0	0.3	-0.2
2	6/18/2003	17:14:00	12.52	53.8	0.3	-0.2
2	6/18/2003	17:15:00	12.51	53.6	0.3	-0.2
2	6/18/2003	17:16:00	12.51	53.6	0.3	-0.2
2	6/18/2003	17:17:00	12.53	53.1	0.3	-0.2
2	6/18/2003	17:18:00	12.51	52.8	0.3	-0.2
2	6/18/2003	17:19:00	12.53	53.2	0.3	-0.2
2	6/18/2003	17:20:00	12.54	53.6	0.3	-0.2
2	6/18/2003	17:21:00	12.55	53.6	0.4	-0.2
2	6/18/2003	17:22:00	12.52	53.7	0.4	-0.2
2	6/18/2003	17:23:00	12.51	53.1	0.4	-0.2
2	6/18/2003	17:24:00	12.53	53.1	0.3	-0.2
2	6/18/2003	17:25:00	12.57	53.7	0.3	-0.2
2	6/18/2003	17:26:00	12.58	53.3	0.3	-0.2
2	6/18/2003	17:27:00	12.55	53.5	0.3	-0.2
2	6/18/2003	17:28:00	12.55	53.6	0.4	-0.2
2	6/18/2003	17:29:00	12.55	53.7	0.4	-0.2
2	6/18/2003	17:30:00	12.52	53.3	0.3	-0.2
2	6/18/2003	17:31:00	12.52	53.7	0.3	-0.2
2	6/18/2003	17:32:00	12.53	53.6	0.4	-0.2
2	6/18/2003	17:33:00	12.53	53.5	0.4	-0.2
2	6/18/2003	17:34:00	12.53	53.4	0.4	-0.2
2	6/18/2003	17:35:00	12.54	53.5	0.3	-0.2
2	6/18/2003	17:36:00	12.55	53.6	0.3	-0.2
2	6/18/2003	17:37:00	12.54	53.4	0.3	-0.2
2	6/18/2003	17:38:00	12.56	53.5	0.4	-0.2
2	6/18/2003	17:39:00	12.54	53.2	0.4	-0.2
2	6/18/2003	17:40:00	12.54	52.4	0.3	-0.2
2	6/18/2003	17:41:00	12.55	52.3	0.3	-0.2

2	6/18/2003	17:42:00	12.55	53.0	0.3	-0.2
2	6/18/2003	17:43:00	12.55	53.1	0.3	-0.2
2	6/18/2003	17:44:00	12.51	53.4	0.3	-0.2
2	6/18/2003	17:45:00	12.44	53.5	0.4	-0.2
2	6/18/2003	17:46:00	12.50	53.2	0.3	-0.2
2	6/18/2003	17:47:00	12.49	52.5	0.3	-0.2
2	6/18/2003	17:48:00	12.48	53.1	0.3	-0.2
2	6/18/2003	17:49:00	12.42	52.4	0.3	-0.2
2	6/18/2003	17:50:00	12.52	52.5	0.3	-0.2
2	6/18/2003	17:51:00	12.54	53.0	0.4	-0.2
2	6/18/2003	17:52:00	12.57	53.1	0.3	-0.2
2	6/18/2003	17:53:00	12.52	52.3	0.3	-0.2
2	6/18/2003	17:54:00	12.52	52.4	0.3	-0.2
2	6/18/2003	17:55:00	12.52	52.9	0.3	-0.2
2	6/18/2003	17:56:00	12.52	52.9	0.3	-0.2
2	6/18/2003	17:57:00	12.53	51.9	0.3	-0.2
2	6/18/2003	17:58:00	12.54	52.6	0.3	-0.2
2	6/18/2003	17:59:00	12.55	52.6	0.3	-0.2
2	6/18/2003	18:00:00	12.54	53.2	0.3	-0.2
2	6/18/2003	18:01:00	12.58	52.8	0.3	-0.2
3	6/18/2003	18:16:00	12.52	52.2	0.3	-0.1
3	6/18/2003	18:17:00	12.50	52.4	0.3	-0.1
3	6/18/2003	18:18:00	12.54	52.9	0.3	-0.1
3	6/18/2003	18:19:00	12.53	52.3	0.3	-0.2
3	6/18/2003	18:20:00	12.53	52.9	0.3	-0.2
3	6/18/2003	18:21:00	12.52	53.2	0.3	-0.2
3	6/18/2003	18:22:00	12.51	53.3	0.3	-0.2
3	6/18/2003	18:23:00	12.52	52.9	0.3	-0.2
3	6/18/2003	18:24:00	12.54	52.8	0.3	-0.2
3	6/18/2003	18:25:00	12.54	52.6	0.4	-0.2
3	6/18/2003	18:26:00	12.54	52.6	0.4	-0.2
3	6/18/2003	18:27:00	12.53	53.0	0.3	-0.2
3	6/18/2003	18:28:00	12.53	52.4	0.3	-0.2
3	6/18/2003	18:29:00	12.54	52.7	0.3	-0.2
3	6/18/2003	18:30:00	12.54	53.0	0.3	-0.2
3	6/18/2003	18:31:00	12.52	52.3	0.3	-0.2
3	6/18/2003	18:32:00	12.53	52.2	0.3	-0.2
3	6/18/2003	18:33:00	12.53	52.1	0.3	-0.2
3	6/18/2003	18:34:00	12.56	52.9	0.3	-0.2
3	6/18/2003	18:35:00	12.56	52.5	0.3	-0.2
3	6/18/2003	18:36:00	12.53	52.8	0.3	-0.2
3	6/18/2003	18:37:00	12.54	52.8	0.3	-0.2
3	6/18/2003	18:38:00	12.53	52.9	0.4	-0.2
3	6/18/2003	18:39:00	12.52	52.7	0.4	-0.2
3	6/18/2003	18:40:00	12.52	52.8	0.4	-0.2
3	6/18/2003	18:41:00	12.51	52.8	0.4	-0.2
3	6/18/2003	18:42:00	12.51	52.6	0.3	-0.2
3	6/18/2003	18:43:00	12.51	52.6	0.3	-0.2
3	6/18/2003	18:44:00	12.51	52.3	0.3	-0.2
3	6/18/2003	18:45:00	12.51	51.8	0.3	-0.2
3	6/18/2003	18:46:00	12.51	52.8	0.3	-0.2
3	6/18/2003	18:47:00	12.51	52.7	0.4	-0.2

3	6/18/2003	18:48:00	12.50	52.9	0.4	-0.2
3	6/18/2003	18:49:00	12.51	52.1	0.4	-0.1
3	6/18/2003	18:50:00	12.50	52.5	0.4	-0.1
3	6/18/2003	18:51:00	12.48	52.4	0.3	-0.2
3	6/18/2003	18:52:00	12.55	52.5	0.3	-0.2
3	6/18/2003	18:53:00	12.54	52.2	0.3	-0.2
3	6/18/2003	18:54:00	12.52	52.2	0.3	-0.1
3	6/18/2003	18:55:00	12.56	52.7	0.3	-0.1
3	6/18/2003	18:56:00	12.54	52.0	0.3	-0.1
3	6/18/2003	18:57:00	12.53	52.0	0.4	-0.1
3	6/18/2003	18:58:00	12.54	52.5	0.4	-0.1
3	6/18/2003	18:59:00	12.55	52.2	0.4	-0.1
3	6/18/2003	19:00:00	12.54	52.2	0.3	-0.1
3	6/18/2003	19:01:00	12.55	52.3	0.3	-0.1
3	6/18/2003	19:02:00	12.57	52.1	0.3	-0.1
3	6/18/2003	19:03:00	12.57	52.5	0.3	-0.1
3	6/18/2003	19:04:00	12.55	52.0	0.4	-0.1
3	6/18/2003	19:05:00	12.57	52.6	0.4	-0.1
3	6/18/2003	19:06:00	12.56	52.6	0.4	-0.1
3	6/18/2003	19:07:00	12.57	52.6	0.4	-0.1
3	6/18/2003	19:08:00	12.58	52.7	0.3	-0.1
3	6/18/2003	19:09:00	12.57	52.1	0.3	-0.1
3	6/18/2003	19:10:00	12.58	52.3	0.3	-0.1
3	6/18/2003	19:11:00	12.56	52.6	0.4	-0.1
3	6/18/2003	19:12:00	12.54	51.5	0.4	-0.1
3	6/18/2003	19:13:00	12.55	51.7	0.4	-0.1
3	6/18/2003	19:14:00	12.54	52.4	0.3	-0.1
3	6/18/2003	19:15:00	12.57	52.0	0.3	-0.1

End

Minute Averages

Run	O2	NOX	CO	THC
1	12.53	53.3	0.4	-0.1
2	12.53	53.2	0.3	-0.2
3	12.54	52.5	0.3	-0.2

Appendix D

O_2 Traverses

Method 20 O2 Traverse for Circular stacks

Stack Diameter (in.)= 276

4 PORTS

% Distance from wall	Traverse Point (circular)	Trav. Point Location(from wall)
1.10	1	3
3.20	2	8 7/8
5.50	3	15 1/8
7.90	4	21 6/8
10.50	5	29
13.20	6	36 3/8
16.10	7	44 3/8
19.40	8	53 4/8
23.00	9	63 4/8
27.20	10	75 1/8
32.30	11	89 1/8
39.80	12	109 7/8

Date: 18-Jun-03

Unit Number: 1.0

Location:
Plant: Progress Energy/DeSoto
Unit Number: 001/CT 1
City, State: Arcadia, FL

Turbine Identification:
Manufacturer: General Electric
Model, Serial Number: 7FA
Fuel: Distillate Oil

O_2/CO_2 Traverse Readings at multiple points

Port Location	Traverse Point	Time	O_2 Measured	NO_x Measured
SE	1	6:50	12.8	51.4
SE	2	6:52	12.8	51.5
SE	3	6:54	12.8	51.5
SE	4	6:56	12.9	52.5
SE	5	6:58	12.9	51.3
SE	6	7:00	12.9	51.2
SE	7	7:02	12.8	51.0
SE	8	7:04	12.8	50.9
SE	9	7:06	12.8	51.2
SE	10	7:08	12.8	50.9
SE	11	7:10	12.9	50.5
SE	12	7:14	13.0	49.3
NE	1	7:16	12.9	51.3
NE	2	7:18	12.8	51.2
NE	3	7:20	12.9	51.3
NE	4	7:22	12.9	51.3
NE	5	7:24	12.8	51.6
NE	6	7:26	12.8	51.5
NE	7	7:28	12.8	51.8
NE	8	7:30	12.8	51.5
NE	9	7:32	12.9	51.6
NE	10	7:34	12.9	51.9
NE	11	7:36	12.9	51.6
NE	12	7:38	13.0	50.5
NW	1	7:45	12.9	50.3
NW	2	7:47	12.9	50.4
NW	3	7:49	12.9	51.0
NW	4	7:51	12.9	51.2
NW	5	7:53	12.8	50.5
NW	6	7:55	12.9	51.5
NW	7	7:57	12.9	50.3
NW	8	7:59	12.9	50.5
NW	9	8:01	12.9	51.6
NW	10	8:03	12.9	50.1
NW	11	8:05	12.9	50.5
NW	12	8:07	13.0	48.0
SW	1	8:16	12.9	51.1
SW	2	8:18	12.9	50.3
SW	3	8:20	12.9	50.3
SW	4	8:24	12.9	51.0
SW	5	8:26	12.9	50.1
SW	6	8:28	12.9	50.3
SW	7	8:30	12.9	50.0
SW	8	8:32	12.9	50.8
SW	9	8:34	12.9	50.6
SW	10	8:36	12.9	49.5
SW	11	8:38	12.9	50.2
SW	12	8:40	13.0	49.1

Date: 17-Jun-03

Unit Number: 1.0

Location:
Plant: Progress Energy/DeSoto
Unit Number: 001/CT 1
City, State: Arcadia, FL

Turbine Identification:
Manufacturer: General Electric
Model, Serial Number: 7FA/
Fuel: Natural Gas

O_2/CO_2 Traverse Readings at multiple points

Port Location	Traverse Point	Time	O_2 Measured	NO_x Measured
SE	1	6:49	14.0	11.2
SE	2	6:51	14.0	10.2
SE	3	6:53	14.0	9.8
SE	4	6:55	14.0	9.5
SE	5	6:57	14.0	9.3
SE	6	6:59	14.0	9.1
SE	7	7:01	14.0	9.0
SE	8	7:03	14.0	8.8
SE	9	7:05	14.0	8.8
SE	10	7:07	14.0	8.8
SE	11	7:09	14.0	8.7
SE	12	7:11	14.0	8.5
NE	1	7:30	14.0	8.5
NE	2	7:32	14.0	8.4
NE	3	7:34	14.0	8.4
NE	4	7:36	14.0	8.4
NE	5	7:38	14.0	8.4
NE	6	7:40	14.0	8.2
NE	7	7:42	14.0	8.3
NE	8	7:44	14.0	8.2
NE	9	7:46	14.0	8.2
NE	10	7:48	14.0	8.2
NE	11	7:50	14.0	8.2
NE	12	7:52	14.2	7.8
NW	1	8:05	14.0	8.1
NW	2	8:07	14.0	8.1
NW	3	8:09	14.0	8.1
NW	4	8:11	14.0	8.0
NW	5	8:13	14.0	8.0
NW	6	8:15	13.9	8.0
NW	7	8:17	13.9	7.9
NW	8	8:19	13.8	7.9
NW	9	8:21	13.8	7.9
NW	10	8:23	13.8	7.9
NW	11	8:26	13.9	7.9
NW	12	8:28	14.1	7.2
SW	1	8:42	14.0	8.1
SW	2	8:44	14.0	8.0
SW	3	8:46	14.0	8.0
SW	4	8:48	14.0	7.9
SW	5	8:50	14.0	8.0
SW	6	8:52	14.0	8.0
SW	7	8:54	13.9	8.0
SW	8	8:56	13.9	8.0
SW	9	8:58	14.0	8.0
SW	10	9:00	14.0	7.9
SW	11	9:02	14.0	7.9
SW	12	9:04	14.1	7.7

Appendix E

Calibration Gas Certificates of Analysis

BEST AVAILABLE COPY

Member of the Linde Gas Group

Linde

Analytical Report

Location : 0024 Maumee Specialty Gas Plant
Material : 5376 AMBIENT ZERO NITROGEN A31
Customer : 262325 HOLOX LTD
Delivery : 83670789

Date: 07/16/2002

Quantity: 2

Production Number : 100053164
Blend Type : TRANSFILL
Analytical Tolerance :

CGA : 580
UN Number : 1066
Ship Code : NON-FLAMMABLE

Mixture Description: ULTRA-ZERO AMBIENT
MONITORING ZERO NITROGEN
<0.05 PPM THC
<0.05 PPM CARBON MONOXIDE
<4 PPM WATER
<1 PPM CARBON DIOXIDE
<2 PPM OXYGEN

Analysis Results:
ULTRA-ZERO AMBIENT
MONITORING ZERO NITROGEN
<0.05 PPM THC
<0.05 PPM CARBON MONOXIDE
<4 PPM WATER
<1 PPM CARBON DIOXIDE
<2 PPM OXYGEN

Cylinder	Lot	Cylinder	Lot
CC100760	02499F2180GC	CC7387	02499F2180GC

Analytical Report Approved By: _____ HQ Analysis & Certificate

AGA
Member of the Linde Gas Group

Linde

Certificate of Analysis

EPA Protocol

Performed according to EPA-600/R-97/121, Procedure G1

Notice: This Cylinder is not to be used when pressure is under 150 psig.

Manufactured and certified at:

AGA Gas, Inc.
Maumee Specialty Gas Plant
6421 Monclova Road
MAUMEE OH 43537
419-893-7226

Produced for customer:

CYLINDER/HARDWARE ACCT
HOLOX LTD
1500 INDIAN TRAIL RD #C
NORCROSS GA 30091
770-925-4640

Material:	2179	Blend Tolerance:	1 % Relative
MISC 3 COMPONENT EPA		Store/Use Temp:	35 to 90 F
Production #:	100055683	Blend Type:	EPA Protocol
Batch #:	02499H2140ME	Cyl. Pressure:	2000 psig
Cylinder #:	CC59244	Balance Gas:	
Expiration Date:	8/23/2005	CGA:	590
Shelf Life:	36 months	Analytical Accuracy:	1.00 % Relative

CAS #	Certified Component	Requested Concentration	Concentration and Uncertainty	Date of Certification
124-38-9	Carbon Dioxide	11	10.9 +/- 0.1 %	08/23/2002
7782-44-7	Oxygen	13	13.0 +/- 0.1 %	08/23/2002
7727-37-9	Nitrogen		Balance	08/23/2002

CAS #	Reference Standard	Cylinder/Standard #	Concentration	Expire Date
124-38-9	Carbon Dioxide	CC59230 , NTRM	19.91 %	08/01/2005
124-38-9	Carbon Dioxide	CC73492 , NTRM	3.912 %	10/01/2002

Instrument	Serial #	Analytical Principle	Calibration Date
Horiba VIA-510	568849043	Non-Dispersive Infrared	07/27/2002
Rosemount 755R	1000559	Paramagnetic	07/27/2002

This product is manufactured using equipment which has been calibrated with NIST traceable, or equivalent, standards, weights, or equipment.

Analytical report approved by John Swanson

John Swanson

HiQ Analysis Certificate

Linde

CERTIFICATE OF ANALYSIS
EPA PROTOCOL
PERFORMED ACCORDING TO EPA-600/R-97/121, PROCEDURE G1

NOTICE: THIS CYLINDER IS NOT TO BE USED WHEN PRESSURE IS UNDER 150 psig

MANUFACTURED AND CERTIFIED AT:

AGA Gas Inc.
Specialty Gas Division
6421 Monclova Road
Maumee, Ohio 43537
419-893-7226

ANALYTICAL AND CYLINDER DATA:

Certified Component	Concentration and Uncertainty	Date of Certification
Oxygen	20.9 ± 0.2%	3/25/2002

Analyzed for Reference Use Only	Concentration	Date of Analysis
N/A - Not Applicable for this Mixture	N/A	N/A

Production Number: 100049312
Cylinder Number: CC137135
Expiration Date: 3/25/2005

Cylinder Pressure (psi): 2000
Balance Gas: Nitrogen
CGA: 590

REFERENCE STANDARDS DATA (TRACEABLE TO NIST AND NMI STANDARDS):

Reference Standard Number	Cylinder Number	Concentration and Component	Expiration Date
NTRM	CC73286	20.89% Oxygen	9/2002

INSTRUMENTATION DATA:

Instrument Model	Serial Number	Date of Last Calibration	Analytical Principle
Rosemount 755R	1000559	3/25/2002	Paramagnetic

Analytical Report Approved By: Kathy Sundquist

AGA
Member of the Linde Gas Group

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CERTIFICATE OF ANALYSIS
EPA PROTOCOL
PERFORMED ACCORDING TO EPA-600/R-97/121, PROCEDURE G1

NOTICE: THIS CYLINDER IS NOT TO BE USED WHEN PRESSURE IS UNDER 150 psig

MANUFACTURED AND CERTIFIED AT:

AGA Gas Inc.
Specialty Gas Division
6421 Monclova Road
Maumee, Ohio 43537
419-893-7226

ANALYTICAL AND CYLINDER DATA:

Certified Component	Concentration and Uncertainty	Date of Certification
Nitric Oxide	128 ± 1 ppm	4/3/2002

Analyzed for Reference Use Only	Concentration	Date of Analysis
NOX	128 ppm	4/3/2002

Production Number: 100049311
Cylinder Number: CC59254
Expiration Date: 4/3/2004

Cylinder Pressure (psi): 2000
Balance Gas: Nitrogen
CGA: 660

REFERENCE STANDARDS DATA (TRACEABLE TO NIST AND NMI STANDARDS):

Reference Standard Number	Cylinder Number	Concentration and Component	Expiration Date
GMIS	CC35129	502.3 ppm Nitric Oxide	12/31/2003
GMIS	CC128918	98.36 ppm Nitric Oxide	12/31/2003

INSTRUMENTATION DATA:

Instrument Model	Serial Number	Date of Last Calibration	Analytical Principle
Horiba CLA-510SS	568093024	4/3/2002	Chemiluminescence

Analytical Report Approved By:

AGA
Member of the Linde Gas Group

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CERTIFICATE OF ANALYSIS
EPA PROTOCOL
PERFORMED ACCORDING TO EPA-600/R-97/121, PROCEDURE G1

NOTICE: THIS CYLINDER IS NOT TO BE USED WHEN PRESSURE IS UNDER 150 psig

MANUFACTURED AND CERTIFIED AT:

AGA Gas inc.
Specialty Gas Division
6421 Monclova Road
Maumee, Ohio 43537
419-893-7226

ANALYTICAL AND CYLINDER DATA:

Certified Component	Concentration and Uncertainty	Date of Certification
Nitric Oxide	73.5 ± 0.7 ppm	4/1/2002

Analyzed for Reference Use Only	Concentration	Date of Analysis
NOX	73.6 ppm	4/1/2002

Production Number: 100049310
Cylinder Number: CC30385
Expiration Date: 4/1/2004

Cylinder Pressure (psi): 2000
Balance Gas: Nitrogen
CGA: 660

REFERENCE STANDARDS DATA (TRACEABLE TO NIST AND NMI STANDARDS):

Reference Standard Number	Cylinder Number	Concentration and Component	Expiration Date
GMIS	CC128918	98.36 ppm Nitric Oxide	12/31/2003
GMIS	CC120197	18.83 ppm Nitric Oxide	12/31/2003

INSTRUMENTATION DATA:

Instrument Model	Serial Number	Date of Last Calibration	Analytical Principle
Horiba CLA-510SS	568093024	4/1/2002	Chemiluminescence

Analytical Report Approved By: Kathy Sanderson

AGA
Member of the Linde Gas Group

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CERTIFICATE OF ANALYSIS
EPA PROTOCOL
PERFORMED ACCORDING TO EPA-600/R-97/121, PROCEDURE G1

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MANUFACTURED AND CERTIFIED AT:

AGA Gas inc.
Specialty Gas Division
6421 Monclova Road
Maumee, Ohio 43537
419-893-7226

ANALYTICAL AND CYLINDER DATA:

Certified Component	Concentration and Uncertainty	Date of Certification
Nitric Oxide	39.3 ± 0.4 ppm	4/9/2002

Analyzed for Reference Use Only	Concentration	Date of Analysis
NOX	39.3 ppm	4/9/2002

Production Number: 100049309
Cylinder Number: CC41765
Expiration Date: 4/9/2004

Cylinder Pressure (psi): 2000
Balance Gas: Nitrogen
CGA: 660

REFERENCE STANDARDS DATA (TRACEABLE TO NIST AND NMI STANDARDS):

Reference Standard Number	Cylinder Number	Concentration and Component	Expiration Date
GMIS	CC120197	18.83 ppm Nitric Oxide	12/31/2003
GMIS	CC128918	98.36 ppm Nitric Oxide	12/31/2003

INSTRUMENTATION DATA:

Instrument Model	Serial Number	Date of Last Calibration	Analytical Principle
Horiba CLA-510SS	568093024	4/9/2002	Chemiluminescence

Analytical Report Approved By: Kary Henderson

AGA
Member of the Linde Gas Group

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CERTIFICATE OF ANALYSIS
EPA PROTOCOL
PERFORMED ACCORDING TO EPA-600/R-97/121, PROCEDURE G1

NOTICE: THIS CYLINDER IS NOT TO BE USED WHEN PRESSURE IS UNDER 150 psig

MANUFACTURED AND CERTIFIED AT:

AGA Gas inc.
Specialty Gas Division
6421 Monclova Road
Maumee, Ohio 43537
419-893-7226

ANALYTICAL AND CYLINDER DATA:

Certified Component	Concentration and Uncertainty	Date of Certification
Nitric Oxide	16.6 ± 0.2 ppm	4/9/2002

Analyzed for Reference Use Only	Concentration	Date of Analysis
NOX	16.7 ppm	4/9/2002

Production Number: 100049308
Cylinder Number: CC39223
Expiration Date: 4/9/2004

Cylinder Pressure (psi): 2000
Balance Gas: Nitrogen
CGA: 660

REFERENCE STANDARDS DATA (TRACEABLE TO NIST AND NMI STANDARDS):

Reference Standard Number	Cylinder Number	Concentration and Component	Expiration Date
GMIS	CC120197	18.69 ppm Nitric Oxide	12/31/2003
GMIS	CC54896	4.99 ppm Nitric Oxide	12/31/2003

INSTRUMENTATION DATA:

Instrument Model	Serial Number	Date of Last Calibration	Analytical Principle
Horiba CLA-510SS	568093024	4/9/2002	Chemiluminescence

Analytical Report Approved By: Kathy Sendaula

AGA
Member of the Linde Gas Group

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CERTIFICATE OF ANALYSIS
EPA PROTOCOL
PERFORMED ACCORDING TO EPA-600/R-97/121, PROCEDURE G1

NOTICE: THIS CYLINDER IS NOT TO BE USED WHEN PRESSURE IS UNDER 150 psig

MANUFACTURED AND CERTIFIED AT:

AGA Gas inc.
Specialty Gas Division
6421 Monclova Road
Maumee, Ohio 43537
419-893-7226

ANALYTICAL AND CYLINDER DATA:

Certified Component	Concentration and Uncertainty	Date of Certification
Nitric Oxide	9.82 ± 0.10 ppm	4/2/2002

Analyzed for Reference Use Only	Concentration	Date of Analysis
NOX	9.86 ppm	4/2/2002

Production Number: 100049307
Cylinder Number: CC100394
Expiration Date: 4/2/2004

Cylinder Pressure (psi): 2000
Balance Gas: Nitrogen
CGA: 660

REFERENCE STANDARDS DATA (TRACEABLE TO NIST AND NMI STANDARDS):

Reference Standard Number	Cylinder Number	Concentration and Component	Expiration Date
GMIS	CC120197	18.69 ppm Nitric Oxide	12/31/2003
GMIS	CC54896	4.99 ppm Nitric Oxide	12/31/2003

INSTRUMENTATION DATA:

Instrument Model	Serial Number	Date of Last Calibration	Analytical Principle
Horiba CLA-510SS	568093024	4/2/2002	Chemiluminescence

Analytical Report Approved By: Kary Senouneh

AGA
Member of the Linde Gas Group

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CERTIFICATE OF ANALYSIS
EPA PROTOCOL
PERFORMED ACCORDING TO EPA-600/R-97/121, PROCEDURE G1

NOTICE: THIS CYLINDER IS NOT TO BE USED WHEN PRESSURE IS UNDER 150 psig

MANUFACTURED AND CERTIFIED AT:

AGA Gas inc.
Specialty Gas Division
6421 Monclova Road
Maumee, Ohio 43537
419-893-7226

ANALYTICAL AND CYLINDER DATA:

Certified Component	Concentration and Uncertainty	Date of Certification
Nitric Oxide	4.72 ± 0.1 ppm	4/2/2002

Analyzed for Reference Use Only	Concentration	Date of Analysis
NOX	4.75 ppm	4/2/2002

Production Number: 100049306
Cylinder Number: CC279
Expiration Date: 4/2/2004

Cylinder Pressure (psi): 2000
Balance Gas: Nitrogen
CGA: 660

REFERENCE STANDARDS DATA (TRACEABLE TO NIST AND NMI STANDARDS):

Reference Standard Number	Cylinder Number	Concentration and Component	Expiration Date
GMIS	CC120197	18.69 ppm Nitric Oxide	12/31/2003
GMIS	CC54896	4.99 ppm Nitric Oxide	12/31/2003

INSTRUMENTATION DATA:

Instrument Model	Serial Number	Date of Last Calibration	Analytical Principle
Horiba CLA-510SS	568093024	4/2/2002	Chemiluminescence

Analytical Report Approved By: Kary Arnaud

AGA
Member of the Linde Gas Group

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CERTIFICATE OF ANALYSIS

EPA PROTOCOL

PERFORMED ACCORDING TO EPA-600/R-97/121, PROCEDURE G1

NOTICE: THIS CYLINDER IS NOT TO BE USED WHEN PRESSURE IS UNDER 150 psig

MANUFACTURED AND CERTIFIED AT:

AGA Gas inc.
Specialty Gas Division
6421 Monclova Road
Maumee, Ohio 43537
419-893-7226

ANALYTICAL AND CYLINDER DATA:

Certified Component	Concentration and Uncertainty	Date of Certification
Carbon Monoxide	45.8 ± 0.5 ppm	4/3/2002

Analyzed for Reference Use Only	Concentration	Date of Analysis
N/A - Not Applicable for this Mixture	N/A	N/A

Production Number: 100049317
Cylinder Number: CC54916
Expiration Date: 4/3/2005

Cylinder Pressure (psi): 2000
Balance Gas: Nitrogen
CGA: 350

REFERENCE STANDARDS DATA (TRACEABLE TO NIST AND NMI STANDARDS):

Reference Standard Number	Cylinder Number	Concentration and Component	Expiration Date
GMIS	CC7618	102.7 ppm Carbon Monoxide	12/31/2003
GMIS	CC100837	10.25 ppm Carbon Monoxide	12/31/2003

INSTRUMENTATION DATA:

Instrument Model	Serial Number	Date of Last Calibration	Analytical Principle
Horiba VIA-510	568384012	4/3/2002	Non-Dispersive Infrared (NDIR)

Analytical Report Approved By: [signature]

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CERTIFICATE OF ANALYSIS

EPA PROTOCOL

PERFORMED ACCORDING TO EPA-600/R-97/121, PROCEDURE G1

NOTICE: THIS CYLINDER IS NOT TO BE USED WHEN PRESSURE IS UNDER 150 psig

MANUFACTURED AND CERTIFIED AT:

AGA Gas inc.
Specialty Gas Division
6421 Monclova Road
Maumee, Ohio 43537
419-893-7226

ANALYTICAL AND CYLINDER DATA:

Certified Component	Concentration and Uncertainty	Date of Certification
Carbon Monoxide	23.5 ± 0.2 ppm	4/3/2002

Analyzed for Reference Use Only	Concentration	Date of Analysis
N/A - Not Applicable for this Mixture	N/A	N/A

Production Number: 100049316
Cylinder Number: CC100330
Expiration Date: 4/3/2005

Cylinder Pressure (psi): 2000
Balance Gas: Nitrogen
CGA: 350

REFERENCE STANDARDS DATA (TRACEABLE TO NIST AND NMI STANDARDS):

Reference Standard Number	Cylinder Number	Concentration and Component	Expiration Date
GMIS	CC7618	102.7 ppm Carbon Monoxide	12/31/2003
GMIS	CC100837	10.25 ppm Carbon Monoxide	12/31/2003

INSTRUMENTATION DATA:

Instrument Model	Serial Number	Date of Last Calibration	Analytical Principle
Horiba VIA-510	568384012	4/3/2002	Non-Dispersive Infrared (NDIR)

Analytical Report Approved By: [signature]

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Member of the Linde Gas Group

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CERTIFICATE OF ANALYSIS

EPA PROTOCOL

PERFORMED ACCORDING TO EPA-600/R-97/121, PROCEDURE G1

NOTICE: THIS CYLINDER IS NOT TO BE USED WHEN PRESSURE IS UNDER 150 psig

MANUFACTURED AND CERTIFIED AT:

AGA Gas inc.
Specialty Gas Division
6421 Monclova Road
Maumee, Ohio 43537
419-893-7226

ANALYTICAL AND CYLINDER DATA:

Certified Component	Concentration and Uncertainty	Date of Certification
Carbon Monoxide	11.8 ± 0.1 ppm	4/3/2002

Analyzed for Reference Use Only	Concentration	Date of Analysis
N/A - Not Applicable for this Mixture	N/A	N/A

Production Number: 100049315
Cylinder Number: CC7652
Expiration Date: 4/3/2005

Cylinder Pressure (psi): 2000
Balance Gas: Nitrogen
CGA: 350

REFERENCE STANDARDS DATA (TRACEABLE TO NIST AND NMI STANDARDS):

Reference Standard Number	Cylinder Number	Concentration and Component	Expiration Date
GMIS	CC310	19.96 ppm Carbon Monoxide	12/31/2003
GMIS	CC100837	10.25 ppm Carbon Monoxide	12/31/2003

INSTRUMENTATION DATA:

Instrument Model	Serial Number	Date of Last Calibration	Analytical Principle
Horiba APMA-350E	56690101	4/3/2002	Non-Dispersive Infrared (NDIR)

Analytical Report Approved By: Kathy Sendeyard

AGA
Member of the Linde Gas Group

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SPECTRA GASES INC.
3434 Route 22 West • Branchburg, NJ 08876 USA Tel.: (908) 252-9300 • (800) 932-0624 • Fax: (908) 252-0811
Shipped From: 80 Industrial Drive • Alpha, NJ 08865

CERTIFICATE OF ANALYSIS

EPA PROTOCOL MIXTURE
PROCEDURE # : G1

CUSTOMER: Cherokee Instruments Inc.
SGI ORDER # : 0033398
ITEM# : 11
P.O # : [redacted]

CYLINDER # : CC-83307
CYLINDER PRES: 2000 PSIG
CGA OUTLET: 590

CERTIFICATION DATE: 3/4/2003
EXPIRATION DATE: 3/4/2006

CERTIFICATION HISTORY

COMPONENT	DATE OF ASSAY	MEAN CONCENTRATION	CERTIFIED CONCENTRATION	ANALYTICAL ACCURACY
Propane	3/4/2003	2.98 ppm	2.98 ppm	+/- 1%

BALANCE Air

PREVIOUS CERTIFICATION DATES: None

REFERENCE STANDARDS

COMPONENT	SRM/NTRM#	CYLINDER#	CONCENTRATION
Propane	GMIS-1	CC-55716	49.94 ppm

INSTRUMENTATION

COMPONENT	MAKE/MODEL	SERIAL #	DETECTOR	CALIBRATION DATE(S)
Propane	H. Packard 6890	US00001434	GC - FID	2/10/2003

THIS STANDARD IS NIST TRACEABLE. IT WAS CERTIFIED ACCORDING TO THE EPA PROTOCOL PROCEDURES.
DO NOT USE THIS STANDARD IF THE CYLINDER PRESSURE IS LESS THAN 150 PSIG.

ANALYST: Cheryl Patino
CHERYL PATINO

DATE: 3/4/2003

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SPECTRA GASES INC.
3434 Route 22 West • Branchburg, NJ 08876 USA Tel.: (908) 252-9300 • (800) 932-0824 • Fax: (908) 252-0811
Shipped From: 80 Industrial Drive • Alpha, NJ 08865

CERTIFICATE OF ANALYSIS

EPA PROTOCOL MIXTURE
PROCEDURE # : G1

CUSTOMER: Cherokee Instruments Inc.
SGI ORDER # : 0017417
ITEM# : 2
P.O.# : 4661

CYLINDER # : CC-63224
CYLINDER PRES: 2000 PSIG
CGA OUTLET: 590

CERTIFICATION DATE: 2/27/2002
EXPIRATION DATE: 2/27/2005

CERTIFICATION HISTORY

COMPONENT	DATE OF ASSAY	MEAN CONCENTRATION	CERTIFIED CONCENTRATION	ANALYTICAL ACCURACY
Propane	2/27/2002	5.03 ppm	5.03 ppm	+/- 1%

BALANCE Air

PREVIOUS CERTIFICATION DATES: None

REFERENCE STANDARDS

COMPONENT	SRM/NTRM#	CYLINDER#	CONCENTRATION
Propane	GMIS-1	CC62984	10.03 ppm

INSTRUMENTATION

COMPONENT	MAKE/MODEL	SERIAL #	DETECTOR	CALIBRATION DATE(S)
Propane	H. Packard 6890	US00001434	GC - FID	2/27/2002

THIS STANDARD IS NIST TRACEABLE. IT WAS CERTIFIED ACCORDING TO THE EPA PROTOCOL PROCEDURES.
DO NOT USE THIS STANDARD IF THE CYLINDER PRESSURE IS LESS THAN 150 PSIG.

ANALYST: FRED PIKULA

DATE: 2/27/2002

SPECTRA GASES INC.
3434 Route 22 West • Branchburg, NJ 08876 USA Tel.: (908) 252-9300 • (800) 932-0624 • Fax: (908) 252-0811
Shipped From: 80 Industrial Drive • Alpha, NJ 08865

CERTIFICATE OF ANALYSIS

EPA PROTOCOL MIXTURE

PROCEDURE # : G1

CUSTOMER: Cherokee Instruments Inc.
SGI ORDER # : 0021503
ITEM# : 10
P.O.# : 4848

CYLINDER # : CC-136418
CYLINDER PRES: 2000 PSIG
CGA OUTLET: 590

CERTIFICATION DATE: 06/04/2002
EXPIRATION DATE: 06/04/2005

CERTIFICATION HISTORY

COMPONENT	DATE OF ASSAY	MEAN CONCENTRATION	CERTIFIED CONCENTRATION	ANALYTICAL ACCURACY
Propane	06/04/2002	8.50 ppm	8.50 ppm	+/- 1%

BALANCE Air

PREVIOUS CERTIFICATION DATES: None

REFERENCE STANDARDS

COMPONENT	SRM/NTRM#	CYLINDER#	CONCENTRATION
Propane	GMIS-1	CC52984	10.03 ppm

INSTRUMENTATION

COMPONENT	MAKE/MODEL	SERIAL #	DETECTOR	CALIBRATION DATE(S)
Propane	H. Packard 6890	US00001434	GC - FID	06/04/2002

THIS STANDARD IS NIST TRACEABLE. IT WAS CERTIFIED ACCORDING TO THE EPA PROTOCOL PROCEDURES.
DO NOT USE THIS STANDARD IF THE CYLINDER PRESSURE IS LESS THAN 150 PSIG.

ANALYST: _____
TED NEEME

DATE: 06/04/2002

Appendix F

Quality Assurance/Quality Control Documents

Gas

50, 70, and 85 % of Load

Calibration Error

Sampling System Bias and Drift

Analyzer Calibration Error

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Compliance 50, 75, 80 % Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 1

Oxygen Monitor

Method 20

Full Scale: 25.00 %

Serial Number: 01415D/3379

Cylinder Number	Reference Gas Concentration	Analyzer Response	Difference	Calibration Error (%)
CC7387/cg1	0.00 %	-0.02 %	-0.02 %	-0.08 %
CC59244/cg3	13.00 %	13.08 %	0.08 %	0.32 %
CC137135/cg4	20.90 %	20.93 %	0.03 %	0.12 %

Nitrogen Oxides Monitor

Method 20

Full Scale: 20.0 ppm

Serial Number: 42CHL-74122-375

Cylinder Number	Reference Gas Concentration	Analyzer Response	Difference	Calibration Error (%)
CC7387/cg1	0.0 ppm	0.0 ppm	0.0 ppm	0.00 %
CC279/cg8	4.7 ppm	4.4 ppm	-0.3 ppm	-1.60 %
CC100394/cg9	9.8 ppm	9.8 ppm	0.0 ppm	-0.10 %
CC39223/cg10	16.6 ppm	16.5 ppm	-0.1 ppm	-0.50 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Compliance 50, 75, 80 % Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 1

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.02 %	0.01 %	0.12 %	0.01 %	0.12 %	0.00 %
O_2	13.08 %	12.87 %	-0.84 %	12.84 %	-0.96 %	-0.12 %
NO_X	0.0 ppm	0.1 ppm	0.50 %	0.1 ppm	0.50 %	0.00 %
NO_X	9.8 ppm	9.8 ppm	0.00 %	9.8 ppm	0.00 %	0.00 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Compliance 50, 75, 80 % Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 2

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.02 %	0.01 %	0.12 %	0.02 %	0.16 %	0.04 %
O_2	13.08 %	12.84 %	-0.96 %	12.87 %	-0.84 %	0.12 %
NO_X	0.0 ppm	0.1 ppm	0.50 %	0.1 ppm	0.50 %	0.00 %
NO_X	9.8 ppm	9.8 ppm	0.00 %	9.8 ppm	0.00 %	0.00 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Compliance 50, 75, 80 % Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 3

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.02 %	0.02 %	0.16 %	0.00 %	0.08 %	-0.08 %
O_2	13.08 %	12.87 %	-0.84 %	12.86 %	-0.88 %	-0.04 %
NO_X	0.0 ppm	0.1 ppm	0.50 %	0.1 ppm	0.50 %	0.00 %
NO_X	9.8 ppm	9.8 ppm	0.00 %	9.8 ppm	0.00 %	0.00 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Compliance 50, 75, 80 % Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 4

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.02 %	0.00 %	0.08 %	0.02 %	0.16 %	0.08 %
O_2	13.08 %	12.86 %	-0.88 %	12.88 %	-0.80 %	0.08 %
NO_X	0.0 ppm	0.1 ppm	0.50 %	0.1 ppm	0.50 %	0.00 %
NO_X	9.8 ppm	9.8 ppm	0.00 %	9.8 ppm	0.00 %	0.00 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Compliance 50, 75, 80 % Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 5

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.02 %	0.02 %	0.16 %	0.03 %	0.20 %	0.04 %
O_2	13.08 %	12.88 %	-0.80 %	12.88 %	-0.80 %	0.00 %
NO_X	0.0 ppm	0.1 ppm	0.50 %	0.1 ppm	0.50 %	0.00 %
NO_X	9.8 ppm	9.8 ppm	0.00 %	9.8 ppm	0.00 %	0.00 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Compliance 50, 75, 80 % Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 6

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.02 %	0.03 %	0.20 %	0.02 %	0.16 %	-0.04 %
O_2	13.08 %	12.88 %	-0.80 %	12.90 %	-0.72 %	0.08 %
NO_X	0.0 ppm	0.1 ppm	0.50 %	0.1 ppm	0.50 %	0.00 %
NO_X	9.8 ppm	9.8 ppm	0.00 %	9.8 ppm	0.00 %	0.00 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Compliance 50, 75, 80 % Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 7

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.02 %	0.02 %	0.16 %	0.02 %	0.16 %	0.00 %
O_2	13.08 %	12.90 %	-0.72 %	12.89 %	-0.76 %	-0.04 %
NO_x	0.0 ppm	0.1 ppm	0.50 %	0.1 ppm	0.50 %	0.00 %
NO_x	9.8 ppm	9.8 ppm	0.00 %	9.8 ppm	0.00 %	0.00 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Compliance 50, 75, 80 % Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 8

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.02 %	0.02 %	0.16 %	0.04 %	0.24 %	0.08 %
O_2	13.08 %	12.89 %	-0.76 %	12.86 %	-0.88 %	-0.12 %
NO_X	0.0 ppm	0.1 ppm	0.50 %	0.1 ppm	0.50 %	0.00 %
NO_X	9.8 ppm	9.8 ppm	0.00 %	9.7 ppm	-0.50 %	-0.50 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Compliance 50, 75, 80 % Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 9

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.02 %	0.04 %	0.24 %	0.04 %	0.24 %	0.00 %
O_2	13.08 %	12.86 %	-0.88 %	12.89 %	-0.76 %	0.12 %
NO_X	0.0 ppm	0.1 ppm	0.50 %	0.1 ppm	0.50 %	0.00 %
NO_X	9.8 ppm	9.7 ppm	-0.50 %	9.7 ppm	-0.50 %	0.00 %

Gas

Base Load

Calibration Error

Sampling System Bias and Drift

Analyzer Calibration Error

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Complilance 100% Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 1

Oxygen Monitor

Method 20

Full Scale: 25.00 %

Serial Number: 01415D/3379

Cylinder Number	Reference Gas Concentration	Analyzer Response	Difference	Calibration Error (%)
CC7387/cg1	0.00 %	-0.03 %	-0.03 %	-0.12 %
CC59244/cg3	13.00 %	12.99 %	-0.01 %	-0.04 %
CC137135/cg4	20.90 %	20.86 %	-0.04 %	-0.16 %

Nitrogen Oxides Monitor

Method 20

Full Scale: 20.0 ppm

Serial Number: 42CHL-74122-375

Cylinder Number	Reference Gas Concentration	Analyzer Response	Difference	Calibration Error (%)
CC7387/cg1	0.0 ppm	0.0 ppm	0.0 ppm	0.00 %
CC279/cg8	4.7 ppm	4.4 ppm	-0.3 ppm	-1.60 %
CC100394/cg9	9.8 ppm	10.0 ppm	0.2 ppm	0.90 %
CC39223/cg10	16.6 ppm	16.6 ppm	0.0 ppm	0.00 %

Carbon Monoxide Monitor

Method 10

Full Scale: 50.0 ppm

Serial Number: 48C-74094-375

Cylinder Number	Reference Gas Concentration	Analyzer Response	Difference	Calibration Error (%)
CC7387/cg1	0.0 ppm	0.0 ppm	0.0 ppm	0.00 %
CC7652/cg5	11.8 ppm	11.6 ppm	-0.2 ppm	-0.40 %
CC1003300/cg6	23.5 ppm	23.4 ppm	-0.1 ppm	-0.20 %
CC54916/cg7	45.8 ppm	45.4 ppm	-0.4 ppm	-0.80 %

Total Hydrocarbon Monitor

Method 25A

Full Scale: 10.0 ppm

Serial Number: 4M01003

Cylinder Number	Reference Gas Concentration	Analyzer Response	Difference	Calibration Error (%)
3AL2015/cg2	0.0 ppm	0.0 ppm	0.0 ppm	N/A
CC83307/cg11	3.0 ppm	3.0 ppm	0.0 ppm	0.67 %
cc63224/cg14	5.0 ppm	5.1 ppm	0.1 ppm	1.39 %
CC13419/cg13	8.5 ppm	8.6 ppm	0.1 ppm	N/A

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Complilance 100% Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 1

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.03 %	0.03 %	0.24 %	-0.01 %	0.08 %	-0.16 %
O_2	12.99 %	12.94 %	-0.20 %	12.94 %	-0.20 %	0.00 %
NO_X	0.0 ppm	0.1 ppm	0.50 %	0.1 ppm	0.50 %	0.00 %
NO_X	10.0 ppm	9.8 ppm	-1.00 %	9.8 ppm	-1.00 %	0.00 %
CO	0.0 ppm	1.9 ppm	3.80 %	1.8 ppm	3.60 %	-0.20 %
CO	11.6 ppm	12.1 ppm	1.00 %	12.1 ppm	1.00 %	0.00 %
THC	0.0 ppm	0.3 ppm	3.00 %	0.1 ppm	1.00 %	-2.00 %
THC	5.1 ppm	5.1 ppm	0.00 %	5.0 ppm	-1.00 %	-1.00 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Complilance 100% Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 2

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.03 %	-0.01 %	0.08 %	0.02 %	0.20 %	0.12 %
O_2	12.99 %	12.94 %	-0.20 %	12.72 %	-1.08 %	-0.88 %
NO_X	0.0 ppm	0.1 ppm	0.50 %	0.1 ppm	0.50 %	0.00 %
NO_X	10.0 ppm	9.8 ppm	-1.00 %	9.8 ppm	-1.00 %	0.00 %
CO	0.0 ppm	1.8 ppm	3.60 %	1.8 ppm	3.60 %	0.00 %
CO	11.6 ppm	12.1 ppm	1.00 %	12.1 ppm	1.00 %	0.00 %
THC	0.0 ppm	0.1 ppm	1.00 %	0.1 ppm	1.00 %	0.00 %
THC	5.1 ppm	5.0 ppm	-1.00 %	5.1 ppm	0.00 %	1.00 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Complilance 100% Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 3

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.03 %	0.02 %	0.20 %	0.00 %	0.12 %	-0.08 %
O_2	12.99 %	12.72 %	-1.08 %	12.92 %	-0.28 %	0.80 %
NO_x	0.0 ppm	0.1 ppm	0.50 %	0.0 ppm	0.00 %	-0.50 %
NO_x	10.0 ppm	9.8 ppm	-1.00 %	9.8 ppm	-1.00 %	0.00 %
CO	0.0 ppm	1.8 ppm	3.60 %	1.7 ppm	3.40 %	-0.20 %
CO	11.6 ppm	12.1 ppm	1.00 %	12.2 ppm	1.20 %	0.20 %
THC	0.0 ppm	0.1 ppm	1.00 %	0.2 ppm	2.00 %	1.00 %
THC	5.1 ppm	5.1 ppm	0.00 %	5.1 ppm	0.00 %	0.00 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Complilance 100% Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 4

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.03 %	0.00 %	0.12 %	0.03 %	0.24 %	0.12 %
O_2	12.99 %	12.92 %	-0.28 %	13.01 %	0.08 %	0.36 %
NO_X	0.0 ppm	0.0 ppm	0.00 %	0.1 ppm	0.50 %	0.50 %
NO_X	10.0 ppm	9.8 ppm	-1.00 %	9.8 ppm	-1.00 %	0.00 %
CO	0.0 ppm	1.7 ppm	3.40 %	1.7 ppm	3.40 %	0.00 %
CO	11.6 ppm	12.2 ppm	1.20 %	11.9 ppm	0.60 %	-0.60 %
THC	0.0 ppm	0.2 ppm	2.00 %	0.2 ppm	2.00 %	0.00 %
THC	5.1 ppm	5.1 ppm	0.00 %	5.2 ppm	1.00 %	1.00 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Complilance 100% Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 5

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.03 %	0.03 %	0.24 %	0.05 %	0.32 %	0.08 %
O_2	12.99 %	13.01 %	0.08 %	12.98 %	-0.04 %	-0.12 %
NO_X	0.0 ppm	0.1 ppm	0.50 %	0.2 ppm	1.00 %	0.50 %
NO_X	10.0 ppm	9.8 ppm	-1.00 %	9.8 ppm	-1.00 %	0.00 %
CO	0.0 ppm	1.7 ppm	3.40 %	1.5 ppm	3.04 %	-0.36 %
CO	11.6 ppm	11.9 ppm	0.60 %	11.7 ppm	0.27 %	-0.33 %
THC	0.0 ppm	0.2 ppm	2.00 %	0.1 ppm	1.00 %	-1.00 %
THC	5.1 ppm	5.2 ppm	1.00 %	5.1 ppm	0.00 %	-1.00 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Complilance 100% Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 6

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.03 %	0.05 %	0.32 %	0.03 %	0.24 %	-0.08 %
O_2	12.99 %	12.98 %	-0.04 %	13.03 %	0.16 %	0.20 %
NO_X	0.0 ppm	0.2 ppm	1.00 %	0.2 ppm	1.00 %	0.00 %
NO_X	10.0 ppm	9.8 ppm	-1.00 %	9.8 ppm	-1.00 %	0.00 %
CO	0.0 ppm	1.5 ppm	3.00 %	1.5 ppm	3.00 %	0.00 %
CO	11.6 ppm	11.7 ppm	0.20 %	11.8 ppm	0.40 %	0.20 %
THC	0.0 ppm	0.1 ppm	1.00 %	0.0 ppm	0.00 %	-1.00 %
THC	5.1 ppm	5.1 ppm	0.00 %	5.0 ppm	-1.00 %	-1.00 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Complilance 100% Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 7

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.03 %	0.03 %	0.24 %	0.04 %	0.28 %	0.04 %
O_2	12.99 %	13.03 %	0.16 %	13.01 %	0.08 %	-0.08 %
NO_X	0.0 ppm	0.2 ppm	1.00 %	0.2 ppm	1.00 %	0.00 %
NO_X	10.0 ppm	9.8 ppm	-1.00 %	9.9 ppm	-0.50 %	0.50 %
CO	0.0 ppm	1.5 ppm	3.00 %	1.6 ppm	3.20 %	0.20 %
CO	11.6 ppm	11.8 ppm	0.40 %	11.9 ppm	0.60 %	0.20 %
THC	0.0 ppm	0.0 ppm	0.00 %	0.0 ppm	0.00 %	0.00 %
THC	5.1 ppm	5.0 ppm	-1.00 %	5.0 ppm	-1.00 %	0.00 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Complilance 100% Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 8

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.03 %	0.04 %	0.28 %	0.03 %	0.24 %	-0.04 %
O_2	12.99 %	13.01 %	0.08 %	13.00 %	0.04 %	-0.04 %
NO_X	0.0 ppm	0.2 ppm	1.00 %	0.2 ppm	1.00 %	0.00 %
NO_X	10.0 ppm	9.9 ppm	-0.50 %	9.9 ppm	-0.50 %	0.00 %
CO	0.0 ppm	1.6 ppm	3.20 %	1.7 ppm	3.40 %	0.20 %
CO	11.6 ppm	11.9 ppm	0.60 %	11.9 ppm	0.60 %	0.00 %
THC	0.0 ppm	0.0 ppm	0.00 %	-0.1 ppm	-1.00 %	-1.00 %
THC	5.1 ppm	5.0 ppm	-1.00 %	4.9 ppm	-2.00 %	-1.00 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Gas Complilance 100% Load
Date:6/17/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy
Crystal River, FL 34429

Run 9

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.03 %	0.03 %	0.24 %	0.02 %	0.20 %	-0.04 %
O_2	12.99 %	13.00 %	0.04 %	13.03 %	0.16 %	0.12 %
NO_X	0.0 ppm	0.2 ppm	1.00 %	0.1 ppm	0.50 %	-0.50 %
NO_X	10.0 ppm	9.9 ppm	-0.50 %	9.8 ppm	-1.00 %	-0.50 %
CO	0.0 ppm	1.7 ppm	3.40 %	1.8 ppm	3.60 %	0.20 %
CO	11.6 ppm	11.9 ppm	0.60 %	12.0 ppm	0.80 %	0.20 %
THC	0.0 ppm	-0.1 ppm	-1.00 %	-0.2 ppm	-2.00 %	-1.00 %
THC	5.1 ppm	4.9 ppm	-2.00 %	4.9 ppm	-2.00 %	0.00 %

Oil

50, 70, and 85 % of Load

Calibration Error

Sampling System Bias and Drift

Analyzer Calibration Error

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
50, 70, 85% NOX Compliance on Oil
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 1

Oxygen Monitor

Method 20

Full Scale: 25.00 %

Serial Number: 01415D/3379

Cylinder Number	Reference Gas Concentration	Analyzer Response	Difference	Calibration Error (%)
CC7387/cg1	0.00 %	-0.01 %	-0.01 %	-0.04 %
CC59244/cg3	13.00 %	13.00 %	0.00 %	0.00 %
CC137135/cg4	20.90 %	20.81 %	-0.09 %	-0.36 %

Nitrogen Oxides Monitor

Method 20

Full Scale: 150.0 ppm

Serial Number: 42CHL-74122-375

Cylinder Number	Reference Gas Concentration	Analyzer Response	Difference	Calibration Error (%)
CC7387/cg1	0.0 ppm	0.0 ppm	0.0 ppm	0.00 %
CC41765/cg8	39.3 ppm	38.8 ppm	-0.5 ppm	-0.33 %
CC30385/cg9	73.5 ppm	73.6 ppm	0.1 ppm	0.07 %
CC59254/cg10	128.0 ppm	129.0 ppm	1.0 ppm	0.67 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
50, 70, 85% NOX Compliance on Oil
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 1

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.01 %	0.01 %	0.08 %	0.00 %	0.04 %	-0.04 %
O_2	13.00 %	12.86 %	-0.56 %	12.86 %	-0.56 %	0.00 %
NO_X	0.0 ppm	0.3 ppm	0.20 %	0.3 ppm	0.20 %	0.00 %
NO_X	73.6 ppm	72.0 ppm	-1.07 %	71.8 ppm	-1.20 %	-0.13 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
50, 70, 85% NOX Compliance on Oil
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 2

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.01 %	0.00 %	0.04 %	-0.01 %	0.00 %	-0.04 %
O_2	13.00 %	12.86 %	-0.56 %	12.87 %	-0.52 %	0.04 %
NO_X	0.0 ppm	0.3 ppm	0.20 %	0.4 ppm	0.27 %	0.07 %
NO_X	73.6 ppm	71.8 ppm	-1.20 %	71.6 ppm	-1.33 %	-0.13 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
50, 70, 85% NOX Compliance on Oil
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 3

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.01 %	-0.01 %	0.00 %	0.01 %	0.08 %	0.08 %
O_2	13.00 %	12.87 %	-0.52 %	12.86 %	-0.56 %	-0.04 %
NO_x	0.0 ppm	0.4 ppm	0.27 %	0.4 ppm	0.27 %	0.00 %
NO_x	73.6 ppm	71.6 ppm	-1.33 %	71.4 ppm	-1.47 %	-0.13 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
50, 70, 85% NOX Compliance on Oil
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 4

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.01 %	0.01 %	0.08 %	0.00 %	0.04 %	-0.04 %
O_2	13.00 %	12.86 %	-0.56 %	12.87 %	-0.52 %	0.04 %
NO_X	0.0 ppm	0.4 ppm	0.27 %	0.3 ppm	0.20 %	-0.07 %
NO_X	73.6 ppm	71.4 ppm	-1.47 %	71.6 ppm	-1.33 %	0.13 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
50, 70, 85% NOX Compliance on Oil
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 5

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.01 %	0.00 %	0.04 %	-0.01 %	0.00 %	-0.04 %
O_2	13.00 %	12.87 %	-0.52 %	12.85 %	-0.60 %	-0.08 %
NO_X	0.0 ppm	0.3 ppm	0.20 %	0.4 ppm	0.27 %	0.07 %
NO_X	73.6 ppm	71.6 ppm	-1.33 %	71.5 ppm	-1.40 %	-0.07 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
50, 70, 85% NOX Compliance on Oil
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 6

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.01 %	-0.01 %	0.00 %	-0.01 %	0.00 %	0.00 %
O_2	13.00 %	12.85 %	-0.60 %	12.86 %	-0.56 %	0.04 %
NO_X	0.0 ppm	0.4 ppm	0.27 %	0.3 ppm	0.20 %	-0.07 %
NO_X	73.6 ppm	71.5 ppm	-1.40 %	71.6 ppm	-1.33 %	0.07 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
50, 70, 85% NOX Compliance on Oil
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 7

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.01 %	-0.01 %	0.00 %	0.01 %	0.08 %	0.08 %
O_2	13.00 %	12.86 %	-0.56 %	12.88 %	-0.48 %	0.08 %
NO_X	0.0 ppm	0.3 ppm	0.20 %	0.4 ppm	0.27 %	0.07 %
NO_X	73.6 ppm	71.6 ppm	-1.33 %	71.4 ppm	-1.47 %	-0.13 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
50, 70, 85% NOX Compliance on Oil
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 8

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.01 %	0.01 %	0.08 %	-0.02 %	-0.04 %	-0.12 %
O_2	13.00 %	12.88 %	-0.48 %	12.86 %	-0.56 %	-0.08 %
NO_X	0.0 ppm	0.4 ppm	0.27 %	0.4 ppm	0.27 %	0.00 %
NO_X	73.6 ppm	71.4 ppm	-1.47 %	71.2 ppm	-1.60 %	-0.13 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
50, 70, 85% NOX Compliance on Oil
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 9

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.01 %	-0.02 %	-0.04 %	-0.01 %	0.00 %	0.04 %
O_2	13.00 %	12.86 %	-0.56 %	12.85 %	-0.60 %	-0.04 %
NO_X	0.0 ppm	0.4 ppm	0.27 %	0.3 ppm	0.20 %	-0.07 %
NO_X	73.6 ppm	71.2 ppm	-1.60 %	71.5 ppm	-1.40 %	0.20 %

Oil

Base Load

Calibration Error

Sampling System Bias and Drift

Analyzer Calibration Error

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Oil Complilance 100% Load
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Oxygen Monitor

Method 20

Full Scale: 25.00 %

Serial Number: 01415D/3379

Cylinder Number	Reference Gas Concentration	Analyzer Response	Difference	Calibration Error (%)
CC7387/cg1	0.00 %	-0.03 %	-0.03 %	-0.12 %
CC59244/cg3	13.00 %	12.97 %	-0.03 %	-0.12 %
CC137135/cg4	20.90 %	20.80 %	-0.10 %	-0.40 %

Nitrogen Oxides Monitor

Method 20

Full Scale: 150.0 ppm

Serial Number: 42CHL-74122-375

Cylinder Number	Reference Gas Concentration	Analyzer Response	Difference	Calibration Error (%)
CC7387/cg1	0.0 ppm	0.1 ppm	0.1 ppm	0.07 %
CC41765/cg8	39.3 ppm	38.5 ppm	-0.8 ppm	-0.53 %
CC30385/cg9	73.5 ppm	74.0 ppm	0.5 ppm	0.33 %
CC59254/cg10	128.0 ppm	130.2 ppm	2.2 ppm	1.47 %

Carbon Monoxide Monitor

Method 10

Full Scale: 50.0 ppm

Serial Number: 48C-74094-375

Cylinder Number	Reference Gas Concentration	Analyzer Response	Difference	Calibration Error (%)
CC7387/cg1	0.0 ppm	-0.1 ppm	-0.1 ppm	-0.20 %
CC7652/cg5	11.8 ppm	11.4 ppm	-0.4 ppm	-0.80 %
CC1003300/cg6	23.5 ppm	23.0 ppm	-0.5 ppm	-1.00 %
CC54916/cg7	45.8 ppm	45.9 ppm	0.1 ppm	0.20 %

Total Hydrocarbon Monitor

Method 25A

Full Scale: 10.0 ppm

Serial Number: 4M01003

Cylinder Number	Reference Gas Concentration	Analyzer Response	Difference	Calibration Error (%)
3AL2015/cg2	0.0 ppm	0.0 ppm	0.0 ppm	N/A
CC83307/cg11	3.0 ppm	3.0 ppm	0.0 ppm	0.67 %
CC63224/cg14	5.0 ppm	5.0 ppm	0.0 ppm	-0.60 %
CC13419/cg13	8.5 ppm	8.5 ppm	0.0 ppm	N/A

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Oil Complilance 100% Load
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 1

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.03 %	0.04 %	0.28 %	0.03 %	0.24 %	-0.04 %
O_2	12.97 %	12.94 %	-0.12 %	12.92 %	-0.20 %	-0.08 %
NO_X	0.1 ppm	0.1 ppm	0.00 %	0.3 ppm	0.13 %	0.13 %
NO_X	74.0 ppm	72.3 ppm	-1.13 %	72.0 ppm	-1.33 %	-0.20 %
CO	-0.1 ppm	0.3 ppm	0.80 %	0.1 ppm	0.40 %	-0.40 %
CO	11.4 ppm	12.2 ppm	1.60 %	12.0 ppm	1.20 %	-0.40 %
THC	0.0 ppm	0.0 ppm	0.00 %	0.0 ppm	0.00 %	0.00 %
THC	5.0 ppm	5.0 ppm	0.00 %	5.0 ppm	0.00 %	0.00 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Oil Complilance 100% Load
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 2

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.03 %	0.03 %	0.24 %	0.02 %	0.20 %	-0.04 %
O_2	12.97 %	12.92 %	-0.20 %	12.90 %	-0.28 %	-0.08 %
NO_X	0.1 ppm	0.3 ppm	0.13 %	0.4 ppm	0.20 %	0.07 %
NO_X	74.0 ppm	72.0 ppm	-1.33 %	71.9 ppm	-1.40 %	-0.07 %
CO	-0.1 ppm	0.1 ppm	0.40 %	0.1 ppm	0.40 %	0.00 %
CO	11.4 ppm	12.0 ppm	1.20 %	12.0 ppm	1.20 %	0.00 %
THC	0.0 ppm	0.0 ppm	0.00 %	0.0 ppm	0.00 %	0.00 %
THC	5.0 ppm	5.0 ppm	0.00 %	5.0 ppm	0.00 %	0.00 %

Sampling System Bias and Drift

Test Performed For:
Progress Ventures
DeSoto County Generating Company, LLC
Unit 1
Oil Complilance 100% Load
Date:6/18/03

Test Performed By:
CEM SOLUTIONS, INC
7990 W. Gulf to Lake Hwy.
Crystal River, FL 34429

Run 3

Monitor Type	Analyzer Cal Response	Initial Cal Value	Pre Run Bias (%)	Final Cal Value	Post Run Bias (%)	Total Run Drift (%)
O_2	-0.03 %	0.02 %	0.20 %	0.04 %	0.28 %	0.08 %
O_2	12.97 %	12.90 %	-0.28 %	12.94 %	-0.12 %	0.16 %
NO_X	0.1 ppm	0.4 ppm	0.20 %	0.4 ppm	0.20 %	0.00 %
NO_X	74.0 ppm	71.9 ppm	-1.40 %	71.1 ppm	-1.93 %	-0.53 %
CO	-0.1 ppm	0.1 ppm	0.40 %	0.2 ppm	0.60 %	0.20 %
CO	11.4 ppm	12.0 ppm	1.20 %	12.1 ppm	1.40 %	0.20 %
THC	0.0 ppm	0.0 ppm	0.00 %	0.0 ppm	0.00 %	0.00 %
THC	5.0 ppm	5.0 ppm	0.00 %	5.0 ppm	0.00 %	0.00 %

NO_2 to NO Converter Efficiency Test

NO_2 Convertor Efficiency Test

Date	Time	NO_x
6/16/2003	17:00:00	4.00
6/16/2003	17:01:00	4.00
6/16/2003	17:02:00	4.00
6/16/2003	17:03:00	4.00
6/16/2003	17:04:00	4.00
6/16/2003	17:05:00	4.00
6/16/2003	17:06:00	4.00
6/16/2003	17:07:00	4.00
6/16/2003	17:08:00	4.00
6/16/2003	17:09:00	4.00
6/16/2003	17:10:00	4.00
6/16/2003	17:11:00	4.00
6/16/2003	17:12:00	4.00
6/16/2003	17:13:00	4.00
6/16/2003	17:14:00	4.00
6/16/2003	17:15:00	4.00
6/16/2003	17:16:00	4.00
6/16/2003	17:17:00	4.00
6/16/2003	17:18:00	4.00
6/16/2003	17:19:00	4.00
6/16/2003	17:20:00	4.00
6/16/2003	17:21:00	4.00
6/16/2003	17:22:00	4.00
6/16/2003	17:23:00	4.00
6/16/2003	17:24:00	4.00
6/16/2003	17:25:00	4.00
6/16/2003	17:26:00	4.00
6/16/2003	17:27:00	4.00
6/16/2003	17:28:00	4.00
6/16/2003	17:29:00	4.00
Highest Reading:		4.00
Convertor Efficiency:		**100.000%**

Monitor Model Number: 42C-HL
Monitor Serial Number: 42CHL-74122-375

Performed by: Jeremy A. Johnson
Affiliation: C.E.M. Solutions, Inc.
Date Performed: 6/16/2003

Gas Cylinder Concentration: 9.82 ppm
Cylinder Serial Number: CC100394
Expiration Date: 4/2/2004

Response Time Tests

Analyzer Response Time Test

Test Date:	6/16/2003
Parameter:	O_2
Analyzer Serial Number:	01420D/3379
Span Gas Concentration:	20.90%
Analyzer Span Setting:	25%

Upscale Response:

Run	Seconds
1	60
2	60
3	60

Average Upscale Response: 60.0 seconds

Downscale Response:

Run	Seconds
1	60
2	60
3	60

Average Downscale Response: 60 seconds

Slower Average Time: 60 seconds

System Response Time used: 120 seconds

Conducted by: Jeremy A. Johnson

Affiliation: C.E.M. Solutions, Inc.

Analyzer Response Time Test

Test Date:	6/16/2003
Parameter:	NO_x
Analyzer Serial Number:	42CHL-74122-375
Span Gas Concentration:	128.0 ppm
Analyzer Span Setting:	150.0 ppm

Upscale Response:

Run	Seconds
1	120
2	120
3	120

Average Upscale Response: 120.0 seconds

Downscale Response:

Run	Seconds
1	120
2	120
3	120

Average Downscale Response: 120 seconds

Slower Average Time: 120 seconds

System Response Time used: 120 seconds

Conducted by: Jeremy A. Johnson

Affiliation: C.E.M. Solutions, Inc.

Analyzer Response Time Test

Test Date:	6/16/2003
Parameter:	CO
Analyzer Serial Number:	48C-74094-375
Span Gas Concentration:	45.5 ppm
Analyzer Span Setting:	50 ppm

Upscale Response:

Run	Seconds
1	60
2	60
3	60

Average Upscale Response: 60.0 seconds

Downscale Response:

Run	Seconds
1	120
2	120
3	120

Average Downscale Response: 120 seconds

Slower Average Time: 90 seconds
System Response Time used: 120 seconds

Conducted by: Jeremy A. Johnson
Affiliation: C.E.M. Solutions, Inc.

Analyzer Response Time Test

Test Date:	6/16/2003
Parameter:	THC
Analyzer Serial Number:	4M01003
Span Gas Concentration:	8.5 ppm
Analyzer Span Setting:	10 ppm

Upscale Response:

Run	Seconds
1	30
2	30
3	30

Average Upscale Response: 30.0 seconds

Downscale Response:

Run	Seconds	Start Time	End Time
1	30		
2	30		
3	30		

Average Downscale Response: 30 seconds

Slower Average Time: 30 seconds
System Response Time used: 120 seconds

Conducted by: Jeremy A. Johnson
Affiliation: C.E.M. Solutions, Inc.

Appendix G

Opacity (Visual Emissions) Data

Gas

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Form Number	Page	Of
0 1 8 9 5	1	2

Continued on VEO Form Number: 0 1 8 9 5

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	Progress Ventures
Facility Name	Desoto
Street Address	3800 NE Roan St
City	Arcadia
State	FL
Zip	34266

Process	Combustion Turbine	Unit # 1	Operating Mode: Base Load - Gas
Control Equipment	DLN Combustors		Operating Mode: 100 %

Describe Emission Point: Metal Stack 23' Diameter

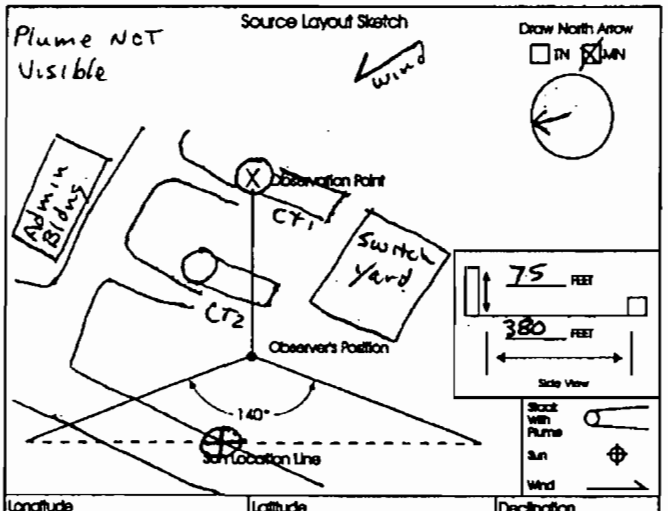
	Start	End
Height of Emiss. Pt.	75'	75'
Height of Emiss. Pt. Rel. to Observer	75'	75'
Distance to Emiss. Pt.	380'	380'
Direction to Emiss. Pt. (Degrees)	80° E	80° E
Vertical Angle to Obs. Pt.	15°	15°
Direction to Obs. Pt. (Degrees)	80° E	80° E
Distance and Direction to Observation Point from Emission Point	2' vert	2' vert.
Describe Emissions	None Visible	None Visible
Emission Color	NONE	NONE
Describe Plume Background	SKY	SKY
Background Color	Blue	Blue
Sky Conditions	Scattered	Broken
Wind Speed	12 mph	10 mph
Wind Direction	SE	SE
Ambient Temp.	93°	93°
Wet Bulb Temp.	80°	
RH Percent	56	

Water Droplet Plume: Attached ☐ Detached ☐ None ☒

Source Layout Sketch

Plume NOT Visible

Draw North Arrow: ☐ IN ☒ MN



Longitude	Latitude	Declination

Additional Information: Start/stop time synchronized with CEMS Computer

Observation Date	Time Zone	Start Time	End Time
6/17/03	EST	1501	1601

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
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11	0	0	0	0	
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16	0	0	0	0	
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18	0	0	0	0	
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21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print)	Warren Davidson Jr
Observer's Signature	Warren Davidson Jr
Date	6/17/03
Organization	CEM Solutions Inc
Certified By	ETA - Cert # 303711
Date	2/21/03

VEOF1.1

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Form Number	Ø	1	8	9	5	Page 2	Of 2
Continued on VEO Form Number	END						

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	Progress Ventures
Facility Name	Desoto
Street Address	3800 Roan St
City	Arcadia
State	FL
Zip	34266
Process	CT
Unit #	1
Operating Mode	Base load-Gas
Control Equipment	DLN Combustors
Operating Mode	100%

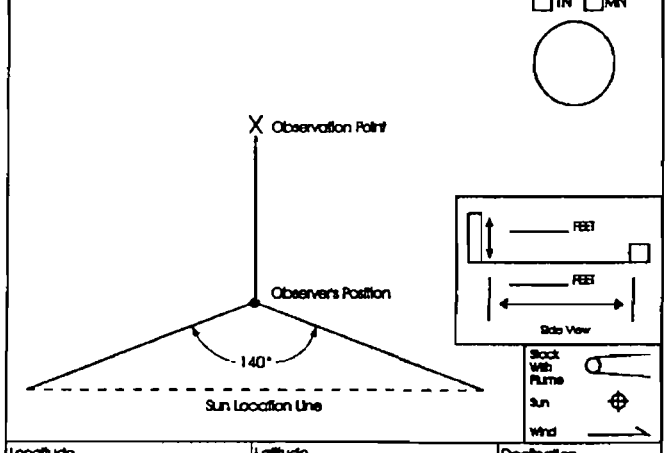
Describe Emission Point

	Start	End
Height of Emiss. Pt.		
Height of Emiss. Pt. Rel. to Observer		
Distance to Emiss. Pt.		
Direction to Emiss. Pt. (Degrees)		
Vertical Angle to Obs. Pt.		
Direction to Obs. Pt. (Degrees)		
Distance and Direction to Observation Point from Emission Point		

Describe Emissions

	Start	End
Emission Color		
Water Droplet Plume	Attached ☐ Detached ☐ None ☐	
Describe Plume Background		
Background Color		
Sky Conditions		
Wind Speed		
Wind Direction		
Ambient Temp.		
Wet Bulb Temp.		
RH Percent		

Source Layout Sketch



Longitude	Latitude	Declination

Additional Information

Observation Date	Time Zone	Start Time	End Time
6/17/03	EST	1501	1601

Min \ Sec	0	15	30	45	Comments
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2	Ø	Ø	Ø	Ø	
3	Ø	Ø	Ø	Ø	
4	Ø	Ø	Ø	Ø	
5	Ø	Ø	Ø	Ø	
6	Ø	Ø	Ø	Ø	
7	Ø	Ø	Ø	Ø	
8	Ø	Ø	Ø	Ø	
9	Ø	Ø	Ø	Ø	
10	Ø	Ø	Ø	Ø	
11	Ø	Ø	Ø	Ø	
12	Ø	Ø	Ø	Ø	
13	Ø	Ø	Ø	Ø	
14	Ø	Ø	Ø	Ø	
15	Ø	Ø	Ø	Ø	
16	Ø	Ø	Ø	Ø	
17	Ø	Ø	Ø	Ø	
18	Ø	Ø	Ø	Ø	
19	Ø	Ø	Ø	Ø	
20	Ø	Ø	Ø	Ø	
21	Ø	Ø	Ø	Ø	
22	Ø	Ø	Ø	Ø	
23	Ø	Ø	Ø	Ø	
24	Ø	Ø	Ø	Ø	
25	Ø	Ø	Ø	Ø	
26	Ø	Ø	Ø	Ø	
27	Ø	Ø	Ø	Ø	
28	Ø	Ø	Ø	Ø	
29	Ø	Ø	Ø	Ø	
30	Ø	Ø	Ø	Ø	

Observer's Name (Print)	Warren Davidson Jr
Observer's Signature	Warren Davidson Jr
Date	6/17/03
Organization	CEM Solutions Inc
Certified By	EPA - Cert# 303711
Date	2/21/03

Oil

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Form Number	1	1	8	9	5	Page 1	Of 2
Continued on VEO Form Number							

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name	Progress Ventures
Facility Name	Desoto
Street Address	3800 NE Roan St
City	Arcadia
State	Fl
Zip	34266

Process	Combustion Turbine	Unit # 1	Operating Mode #2 Base load-Fuel oil
Control Equipment	Water injection for NOx		Operating Mode

Describe Emission Point: metal Stack 23' Diameter

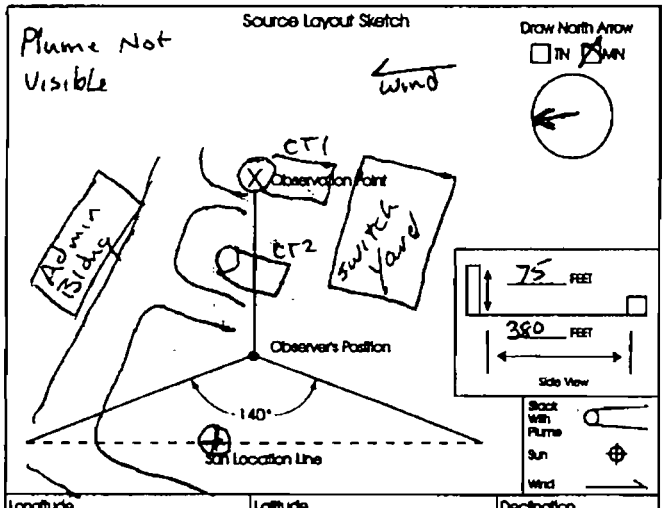
Height of Emiss. Pt.	Start 75' End 75'	Height of Emiss. Pt. Rel. to Observer	Start 75 End 75'
Distance to Emiss. Pt.	Start 380 End 380'	Direction to Emiss. Pt. (Degrees)	Start 80°E End 80°E

Vertical Angle to Obs. Pt.	Start 15° End 15°	Direction to Obs. Pt. (Degrees)	Start 80°E End 80°E
Distance and Direction to Observation Point from Emission Point	Start 2' Vert		End 2' Vert

Describe Emissions	Start None Visible		End None Visible
Emission Color	Start NONE		End NONE
Water Droplet Plume	Attached ☐ Detached ☐ None ☒		

Describe Plume Background	Start Sky		End Sky
Background Color	Start Grey		End Grey
Sky Conditions	Start overcast		End overcast
Wind Speed	Start 1-2 mph		End 4 mph
Wind Direction	Start S		End S-SW
Ambient Temp.	Start 80°	End	
Wet Bulb Temp.	78°		
RH Percent	82		

Source Layout Sketch



Longitude	Latitude	Declination

Additional Information: Start/stop time synchronized with CEMS computer

Observation Date	Time Zone	Start Time	End Time
6/18/03	EST	1446	1546

Min \ Sec	0	15	30	45	Comments
1	Ø	Ø	Ø	Ø	
2	Ø	Ø	Ø	Ø	
3	Ø	Ø	Ø	Ø	
4	Ø	Ø	Ø	Ø	
5	Ø	Ø	Ø	Ø	
6	Ø	Ø	Ø	Ø	
7	Ø	Ø	Ø	Ø	
8	Ø	Ø	Ø	Ø	
9	Ø	Ø	Ø	Ø	
10	Ø	Ø	Ø	Ø	
11	Ø	Ø	Ø	Ø	
12	Ø	Ø	Ø	Ø	
13	Ø	Ø	Ø	Ø	
14	Ø	Ø	Ø	Ø	
15	Ø	Ø	Ø	Ø	
16	Ø	Ø	Ø	Ø	
17	Ø	Ø	Ø	Ø	
18	Ø	Ø	Ø	Ø	
19	Ø	Ø	Ø	Ø	
20	Ø	Ø	Ø	Ø	
21	Ø	Ø	Ø	Ø	
22	Ø	Ø	Ø	Ø	
23	Ø	Ø	Ø	Ø	
24	Ø	Ø	Ø	Ø	
25	Ø	Ø	Ø	Ø	
26	Ø	Ø	Ø	Ø	
27	Ø	Ø	Ø	Ø	
28	Ø	Ø	Ø	Ø	
29	Ø	Ø	Ø	Ø	
30	Ø	Ø	Ø	Ø	

Observer's Name (Print)	Warren Davidson Jr
Observer's Signature	Warren Davidson
Date	6/18/03
Organization	CEM Solutions Inc
Certified By	ETA - Cert. # 303711
Date	2/21/03

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Form Number	1	1	8	9	5	Page 2	Of 2
Continued on VEO Form Number	END						

Method Used (Circle One): Method 9 (Circled) | 203A | 203B | Other: _____

Company Name	Progress Ventures
Facility Name	Desoto
Street Address	3800 NE Roan St
City	Arcadia
State	Fl
Zip	34266

Process	Combustion Turbine	Unit #	1
Operating Mode	#2 Base load Fuel oil		
Control Equipment	Water inj. for NOx	Operating Mode	

Describe Emission Point

Height of Emiss. Pt. Start / End	Height of Emiss. Pt. Rel. to Observer Start / End
Distance to Emiss. Pt. Start / End	Direction to Emiss. Pt. (Degrees) Start / End
Vertical Angle to Obs. Pt. Start / End	Direction to Obs. Pt. (Degrees) Start / End
Distance and Direction to Observation Point from Emission Point Start / End	

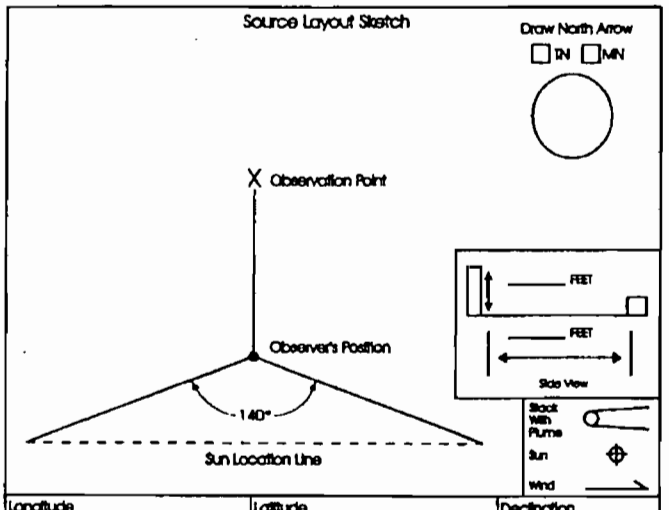
Describe Emissions Start / End

Emission Color Start / End	Water Droplet Plume Attached ☐ Detached ☐ None ☐

Describe Plume Background Start / End

Background Color Start / End	Sky Conditions Start / End
Wind Speed Start / End	Wind Direction Start / End
Ambient Temp. Start / End	Wet Bulb Temp. / RH Percent

Source Layout Sketch



Longitude	Latitude	Declination

Additional Information: Start/stop time synchronized with CEMS Computer

Observation Date	Time Zone	Start Time	End Time
6/18/03	EST	1446	1546

Min \ Sec	0	15	30	45	Comments
1	Ø	Ø	Ø	Ø	
2	Ø	Ø	Ø	Ø	
3	Ø	Ø	Ø	Ø	
4	Ø	Ø	Ø	Ø	
5	Ø	Ø	Ø	Ø	
6	Ø	Ø	Ø	Ø	
7	Ø	Ø	Ø	Ø	
8	Ø	Ø	Ø	Ø	
9	Ø	Ø	Ø	Ø	
10	Ø	Ø	Ø	Ø	
11	Ø	Ø	Ø	Ø	
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25	Ø	Ø	Ø	Ø	
26	Ø	Ø	Ø	Ø	
27	Ø	Ø	Ø	Ø	
28	Ø	Ø	Ø	Ø	
29	Ø	Ø	Ø	Ø	
30	Ø	Ø	Ø	Ø	

Observer's Name (Print)	Warren Davidson Jr
Observer's Signature	Warren Davidson
Date	6/18/03
Organization	CEM Solutions Inc
Certified By	EPA cert # 303711
Date	2/21/03