

Florida Department of
Environmental Protection

Memorandum

TO: Trina Vielhauer
THRU: J. F. Koerner *JFK*
FROM: Michael P. Halpin *MH*
DATE: March 30, 2006
SUBJECT: JEA, St. Johns River Power Park
Petcoke increase
DEP File No. PSD-FL-010, PA 81-13

Attached is a revision to the Technical Evaluation and Final Determination of permit 0310045-014-AC. The applicant has revised the historical emissions for carbon monoxide and is in the process of updating the relevant AOR's. The revision should improve the historical accuracy, as CEMS are being used rather than AP-42 emission factors which were used in the past.

No change to the permit itself is required as the language simply requires that the applicant be able to demonstrate for a period of 5 years that no emission increase has occurred. The Technical Evaluation and Final Determination is referenced as an attachment to the permit, and it is within that document that baseline emissions were established.

It is my recommendation that no public notice be required, as the permit itself is unchanged. Furthermore, all parties to the original permit change have been included in this action, and the cover letter provides them with a right of appeal.

I recommend your approval.

Attachments

/mph



Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Colleen M. Castille
Secretary

March 30, 2006

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Paul M. Smith
Plant Manager
JEA – St. Johns River Power Park
11201 New Berlin Road
Jacksonville, Florida 32226

Re: DEP File No. 0310045-014-AC, PSD-FL-010
St. Johns River Power Park (SJRPP)

Dear Mr. Smith:

The Department is in receipt of your letter dated March 14, 2006 and supporting documentation. Based upon your submittal, it is our understanding that SJRPP is in the process of revising the facility AOR's for years 2000 through 2004, with respect to carbon monoxide (CO) emissions. Your documentation indicates that SJRPP Units 1 and 2 have been equipped with CEMS for CO since the mid-1990's, and that based upon the Department's recent adoption of Rule 62-210.370 Emissions Computation and Reporting, the preferred approach for determining the most accurate computation of annual emissions is through a hierarchy of technical methods, with CEMS being the most preferable.

The Department accepts SJRPP's analysis and supporting documentation. Additionally, the Department recognizes that as a result of the changes to the historical emissions for CO, a revision to an attachment (the Technical Evaluation and Final Determination) related to air construction permit 0310045-014-AC is required, and has been attached.

A copy of this amendment letter and the Technical Evaluation and Final Determination shall be attached to and shall become a part of Permit PSD-FL-010. All other conditions of the referenced permits remain unchanged. A copy of this letter shall be filed with the referenced permit and shall become part of the permit.

This action is final unless a petition is received in accordance with the following requirements:

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000 (Telephone: 850/245-2241; Fax: 850/245-2303). Petitions filed by the applicant or any of the parties listed below must be filed within fourteen (14) days of receipt of this Written Notice of Intent to Issue Air Permit. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within fourteen (14) days of publication of the attached Public Notice or within fourteen (14) days of receipt of this Written Notice of Intent to Issue Air Permit, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within fourteen (14) days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as

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a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner; the name, address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when each petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Any party to the original permit has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.



Trina Vielhauer, Bureau Chief
Division of Air Resource
Management

James M. Chansler, JEA *
Jay A. Worley, JEA
Gregg Worley, EPA
John Bunyak, NPS
Chris Kirts, DEP-NED
Richard Robinson, P.E. ERMD
Hamilton S. Oven, DEP-Siting
Yi Zhu, DEP (ARMS)

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this "Technical Evaluation and Final Determination revision" package was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 3/30/06 to the persons listed below.

James M. Chansler, JEA *
Jay A. Worley, JEA
Gregg Worley, EPA
John Bunyak, NPS
Chris Kirts, NED
Richard Robinson, P.E. ERMD
Mr. Hamilton S. Oven, DEP-Siting

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.

Mary J. Hamy (Clerk) 3/30/06 (Date)

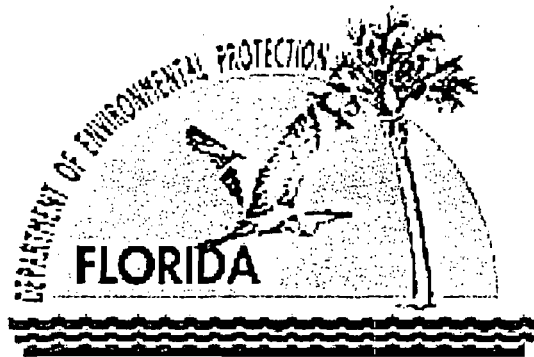
**TECHNICAL EVALUATION
AND
FINAL DETERMINATION**

St. Johns River Power Park

Increased Co-Firing of Petroleum Coke

JEA / DUVAL COUNTY

0310045-014-AC



Department of Environmental Protection
Division of Air Resources Management
Bureau of Air Regulation
North Permitting Section

March 30, 2005
Revised March 30, 2006

TECHNICAL EVALUATION AND FINAL DETERMINATION

1. GENERAL INFORMATION

1.1 APPLICANT NAME AND ADDRESS

St. Johns River Power Park
JEA
11201 New Berlin Road
Jacksonville, Florida 32226

Authorized Representative: James M. Chansler, V.P. Operations and Maintenance

1.2 REVIEWING AND PROCESS SCHEDULE

| | |
|------------------|------------------------------|
| February 2, 2005 | Received permit application |
| March 4, 2005 | Issued Draft Intent |
| March 31, 2005 | Issued Final permit revision |

2. FACILITY INFORMATION

2.1 FACILITY LOCATION

The facility is located in Jacksonville, Duval County. The UTM coordinates are Zone 17; 446.90 km E; 3359.15 km N. This site is approximately 54 kilometers from the Okefenokee National Wildlife Refuge and 98 kilometers from the Wolf Island National Wildlife Refuge, both Class I PSD Areas.

2.2 STANDARD INDUSTRIAL CLASSIFICATION CODES (SIC)

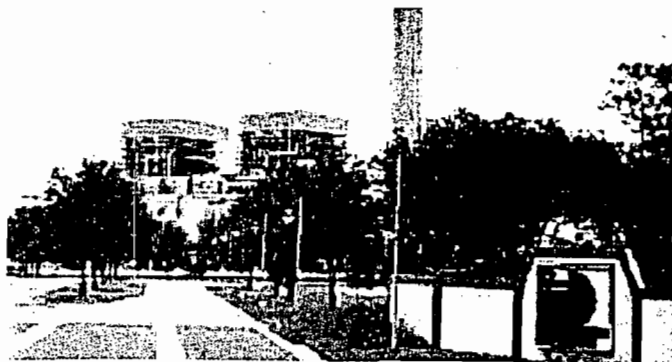
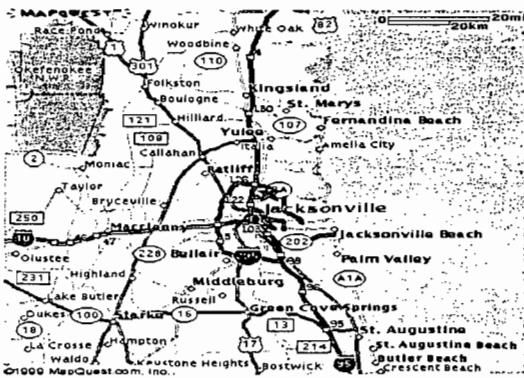
| | | |
|--------------------|------|-------------------------------------|
| Industry Group No. | 49 | Electric, Gas and Sanitary Services |
| Industry No. | 4911 | Electric Services |

2.3 FACILITY CATEGORY

This facility consists of five boilers, Northside Generating Station (NGS) Boilers Nos. 1, 2 and 3 (No. 2 was placed on long-term reserve shutdown on March 1, 1984) and St. Johns River Power Park (SJRPP) Boilers Nos. 1 and 2; four combustion turbines, NGS Nos. 3, 4, 5 and 6 (Nos. 1 and 2 are inactive); and, an auxiliary boiler, NGS No. 1.

SJRPP Boilers Nos. 1 and 2 are fossil fuel-fired steam generators, each having a nominal nameplate rating of 679.6 megawatts (electric). The emissions units are allowed to fire pulverized coal, a blend of petroleum coke and coal, new No. 2 distillate fuel oil (startup and low-load operation), and "on-specification" used oil. The maximum heat input to each emissions unit is 6,144 million Btu per hour. SJRPP Boilers Nos. 1 and 2 are dry bottom wall-fired boilers and will use an electrostatic precipitator (ESP) to control particulate matter, a wet limestone flue gas desulphurization (FGD) unit to control sulfur dioxide, low NO_x burners and low excess-air firing to control nitrogen oxides, and good combustion to control carbon monoxide.

Based on the initial Title V permit application received June 14, 1996, this facility is a major source of hazardous air pollutants (HAPs). This facility is within an industry included in the list of the 28 Major Facility Categories per Table 62-212.400-1, F.A.C. Because emissions are greater than 100 TPY for at least one criteria pollutant, the facility is also a Major Facility with respect to Rule 62-212.400, Prevention of Significant Deterioration (PSD).



TECHNICAL EVALUATION AND FINAL DETERMINATION

3. PROJECT DESCRIPTION

This project primarily addresses the following emissions unit(s):

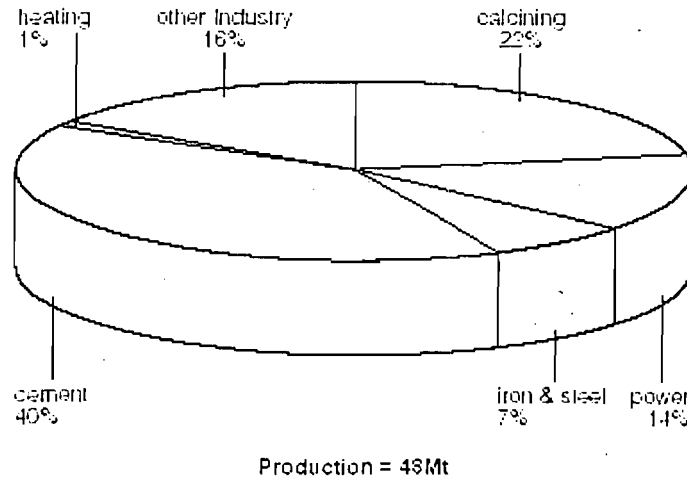
| Emissions Unit No. | Emissions Unit Description |
|--------------------|---|
| 016 | SJRPP Boiler Number 1 – dry bottom wall-fired boiler w/FGD, ESP and LNB |
| 017 | SJRPP Boiler Number 2 – dry bottom wall-fired boiler w/FGD, ESP and LNB |

The applicant proposes to increase the combustion of petroleum coke (petcoke) from a maximum of 20% (on a weight basis) to 30%. The facility currently combusts coal as its primary fuel. The applicant indicates that this permit modification can be made in such a way that air emissions will not increase beyond historical levels, thus a PSD Review will not be triggered. The applicant further proposes that data can be provided in accordance with 40 CFR 52.21(b)(21)(v) and 40 CFR 52.21(b)(33) showing that the operational change associated with the use of increased petroleum coke did not result in significant emission increases for PSD pollutants (i.e., the WEPCO provision); emission analyses follow.

3.1 PETCOKE DISCUSSION

Much of this review was obtained from The Clean Coal Centre of the United Kingdom, in an article entitled "*The use of petroleum coke in a coal-fired plant*". Petroleum coke is a by-product from oil refineries and is composed mainly of carbon though it also contains high levels of sulfur and some heavy metals such as vanadium and nickel. There has been considerable interest in petcoke for several years, where it is available, as it is generally significantly cheaper than coal. The price does vary depending on the volumes produced and worldwide demand. The world production of petcoke grew by 50% from 1987 to 1998. It reached nearly 50 Million Tons (Mt) in 1999 and is expected to reach 100 Mt by 2010. The USA is the world's largest producer, producing three-quarters of world supplies. There are three types of petroleum coke, which can be produced depending on the process of production. The three processes are delayed, fluid and flexicoking with delayed coking producing over 90%. All three types of petcoke have higher calorific values than coal and contain less volatile matter and ash. The main uses of petcoke are as an energy source for power generation, in cement production and iron and steel production (which account for about two thirds of production) and the remainder is used mainly as a carbon source.

FIGURE 3 - 1999 WORLD PETROLEUM COKE MARKET PROFILE



The following additional information was compiled for the Year 2001. The source of this data is FERC Form 423, although the Energy Information Administration (EIA) summarized it in a report entitled "*Cost and Quality of Fuels for Electric Utility Plants 2001*", dated March 2004. This data was accumulated for electric generating plants with nameplate capacity of 50 megawatts or more. Tables 25 and 28 from that report are shown below:

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TECHNICAL EVALUATION AND FINAL DETERMINATION

Table 25. The Top 20 Electric Utilities, Ranked by Receipts of Coal, 2001

| Electric Utility | Receipts (thousand short tons) | Average Delivered Cost | | Total Delivered Cost (million dollars) |
|--------------------------------------|--------------------------------------|----------------------------|----------------------------|--|
| | | (cent: per million Btu) | (dollar: per short ton) | |
| 1. Tennessee Valley Authority..... | 36,556 | 121.92 | 27.99 | 1,023.15 |
| 2. Georgia Power Co..... | 33,639 | 166.28 | 39.06 | 1,313.94 |
| 3. INU Electric Co..... | 27,297 | 131.74 | 18.01 | 491.74 |
| 4. Alabama Power Co..... | 24,211 | 141.68 | 30.07 | 728.00 |
| 5. PacifiCorp..... | 22,216 | 87.16 | 17.25 | 383.23 |
| 6. Detroit Edison Co..... | 20,155 | 122.38 | 25.05 | 505.59 |
| 7. Ameren UE..... | 18,797 | 95.10 | 17.28 | 324.57 |
| 8. Duke Power Co..... | 17,395 | 157.31 | 38.53 | 670.23 |
| 9. Public Service Co of Indiana..... | 16,542 | 110.30 | 24.35 | 402.81 |
| 10. Reliant HL&P..... | 16,423 | 157.06 | 24.47 | 401.93 |
| 11. Basin Electric Power Coop..... | 16,275 | 59.00 | 8.85 | 143.95 |
| 12. Ohio Power Co..... | 15,598 | 143.01 | 34.03 | 530.79 |
| 13. Kansas Power and Light Co..... | 13,942 | 115.59 | 20.69 | 286.03 |
| 14. Mid-American Energy..... | 13,607 | 74.96 | 12.90 | 175.50 |
| 15. Northern States Power Co..... | 13,255 | 94.62 | 16.70 | 221.36 |
| 16. Arkansas Power and Light Co..... | 12,651 | 78.54 | 13.74 | 174.20 |
| 17. Indiana Michigan Power..... | 11,904 | 117.41 | 22.71 | 270.30 |
| 18. Southwestern Electric Power..... | 11,853 | 150.44 | 24.11 | 286.51 |
| 19. Wisconsin Electric Power Co..... | 11,868 | 102.91 | 19.29 | 228.91 |
| 20. Appalachian Power Co..... | 11,858 | 129.66 | 31.09 | 368.64 |

Note: Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatt.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 28. Receipts of Petroleum Coke by Electric Utility, 2001

| Electric Utility | Receipts (thousand short tons) | Average Quality | | | Average Delivered Cost | |
|---|--------------------------------------|--------------------|----------------------------------|-------------------------------|----------------------------|----------------------------|
| | | Btu (per pound) | Sulfur (percent by weight) | Ash (percent by weight) | (cent: per million Btu) | (dollar: per short ton) |
| Ameren UE..... | 197 | 14,303 | 3.72 | 0.40 | 66.55 | 19.12 |
| Central Elec Power Coop-Missouri ¹ | * | 14,235 | 3.20 | .56 | 52.52 | 15.04 |
| Jacksonville Electric Auth..... | 568 | 14,255 | 6.28 | .30 | 62.65 | 17.85 |
| Lakeland City of..... | 18 | 13,955 | 4.19 | .44 | 127.02 | 35.45 |
| Manitowoc Public Utilities..... | 36 | 14,214 | 5.51 | .65 | 54.73 | 15.55 |
| Michigan South Central Power..... | * | 14,002 | 4.65 | .43 | 150.01 | 42.01 |
| Northern States Power Co..... | 201 | 13,613 | 5.64 | .70 | 39.12 | 10.65 |
| Northern Indiana Pub Ser: Co..... | 149 | 13,927 | 4.34 | .20 | 69.32 | 19.31 |
| Reliant HL&P..... | 132 | 13,609 | 1.66 | .44 | 156.57 | 42.61 |
| Salt River Proj: Ag I & P Dist..... | 17 | 14,500 | 3.67 | .60 | 100.48 | 29.14 |
| Seminole Electric Coop..... | 152 | 14,394 | 5.58 | .41 | 110.74 | 31.85 |
| Tampa Electric Power Co..... | 303 | 13,945 | 4.90 | .46 | 82.67 | 23.06 |
| Wisconsin Power & Light..... | 71 | 13,920 | 5.70 | .56 | 96.25 | 26.30 |
| Wisconsin Electric Power Co..... | 145 | 14,201 | 5.24 | .30 | 87.79 | 24.92 |
| Total..... | 2,019 | 14,079 | 5.13 | .40 | 75.35 | 22.07 |

¹ Includes a small amount of coal.

* = Number less than 0.5.

Note: * Totals may not equal sum of components because of independent rounding. * Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatt.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Of interest, no Florida utilities show up in the top 20 listing of coal users, even though Florida is one of the most populous states. It is observed that the cost of petroleum coke in year 2000 was approximately 1/2 that of coal. According to Table 28, Florida had 4 users of petcoke out of 14 listed users. The tables also show that receipts of petcoke totaled 2019 thousand short tons, or about 0.5% of the sum of coal receipts of the top 20 coal users. Only 4 utilities are listed on both tables: Northern States Power, Ameren UE, Wisconsin Electric Power Co. and Reliant HL&P (Northern States Power is now known as XCEL Energy, headquartered in Minnesota). Jacksonville Electric Authority (JEA) is indicated as the largest utility user of petcoke during year 2001 for electrical generation.

TECHNICAL EVALUATION AND FINAL DETERMINATION

4. PROJECT EMISSIONS

4.1 HISTORICAL EMISSIONS

The following table summarizes the historical emissions (EU-016 and 017) based upon Department records (ARMS):

| Pollutant | 2001 Actual Emissions (TPY) | 2002 Actual Emissions (TPY) | 2001-2002 Average (TPY) | PSD Significant Emission Rates (TPY) | Maximum average Emission Rate without a PSD review (TPY) |
|------------------|-----------------------------|-----------------------------|-------------------------|--------------------------------------|--|
| NO _x | 26379.1 | 26738.5 | 26558.8 | 40 | 26598.7 |
| CO | 14463.5 | 12891.6 | 13677.5 | 100 | 13776.5 |
| VOC | 118.873 | 118.179 | 118.53 | 40 | 158.5 |
| SO ₂ | 22535.41 | 20902.199 | 21718.8 | 40 | 21758.7 |
| SAM | 1311.0 | 1322.9 | 1316.9 | 7 | 1323.8 |
| PM | 317.258 | 326.2401 | 321.75 | 25 | 346.7 |
| PM ₁₀ | 72.964 | 75.596 | 74.28 | 15 | 89.2 |
| Pb | 1.21 | 0.81 | 1.01 | 0.6 | 1.59 |

Note: Years 2001 and 2002 were proposed by the applicant as a "representative" period for comparison to future emissions.

5. RULE APPLICABILITY

This facility is located in an area designated, in accordance with Rule 62-204.340, F.A.C., as attainment for all pollutants. Rule 62-4.030, F.A.C., prohibits modification of any existing emissions unit without first receiving a permit. It further specifies that a permitted installation may only be modified in a manner that is consistent with the terms of such a permit. Rule 62-210.200, F.A.C., defines "modification" to mean generally a physical change or change in the method of operation that results in an increase in actual emissions of regulated air pollutants. Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C., also reiterate the requirement for construction permits. Additionally, Rule 62-210.300 requires an Air Construction permit for all new sources of air pollution unless specifically exempt.

FDEP deems that a change to the quantity or quality of fuel burned is a change in the method of operation. Given that the source is major with regard to PSD, an analysis must be performed to verify that the increased burning of petcoke will not result in a significant net emissions increase and that, consequently, use of additional petcoke is not a major modification subject to PSD review. The emission units affected by this permit shall comply with all applicable provisions of the Florida Administrative Code (including applicable portions of the Code of Federal Regulations incorporated therein).

TECHNICAL EVALUATION AND FINAL DETERMINATION

6. PSD POLLUTANT ANALYSIS

6.1 COAL VERSUS PETCOKE

The following table was excerpted from a paper presented at the 2003 International Power-Gen Conference in Las Vegas, Nevada. The paper is entitled "Reducing NO_x and LOI at the St. Johns River Power Park":

| | Pet. Coke | Colombian Coal |
|-----------------------|-----------|----------------|
| Prox. Analysis | | |
| Fixed Carbon | 83.92 | 47.60 |
| VM | 8.50 | 33.40 |
| Ash | 0.52 | 7.40 |
| Moisture | 7.06 | 11.60 |
| Total | 100.00 | 100.00 |
| Ult. Analysis | | |
| Carbon | 82.22 | 66.54 |
| Hydrogen | 3.35 | 4.50 |
| Oxygen | 0.00 | 7.99 |
| Nitrogen | 1.71 | 1.32 |
| Sulfur | 5.14 | 0.65 |
| Ash | 0.52 | 7.40 |
| Moisture | 7.06 | 11.60 |
| Total | 100.00 | 100.00 |
| HHV, Btu/lb as-rec'd | 14,200 | 11,800 |

This table was excerpted from a cement plant application in the United Kingdom (Castle Cement dated May 17, 1999):

| Chemical Names | Units | Coal | Petroleum coke | Increase or Decrease |
|----------------|----------|------|----------------|----------------------|
| Heat Content | CV-MJ/kg | 25.5 | 31.41 | Increase |
| Carbon | % Carbon | 73.4 | 85 | Increase |
| Chlorine | Cl % | 0.03 | NA | Decrease |
| Copper | Cu (ppm) | 12 | 3 | Decrease |
| Lead | Pb | 16 | 5 | Decrease |
| Zinc | Zn | NA | 17 | Increase |
| Cadmium | Cd | 10 | 0.04 | Decrease |
| Chromium | Cr | 8 | 5 | Decrease |
| Thallium | Th | 10 | 0.05 | Decrease |
| Arsenic | As | 7 | 1 | Decrease |
| Mercury | Hg | 10 | NA | Decrease |
| Antimony | Sb | 3 | 1 | Decrease |
| Cobalt | Co | 2 | 3 | Increase |
| Manganese | Mn | 71 | NA | Decrease |
| Nickel | N | 6 | 252 | Increase |
| Tin | Sn | 10 | 1 | Decrease |
| Vanadium | V | 4 | 150 | Increase |
| Sulfur | S% | 1.4 | 5.0 | Increase |

TECHNICAL EVALUATION AND FINAL DETERMINATION

The purpose of the above tables is to illustrate that the PSD pollutant of most concern is sulfur. Due to the decreases in the lead and ash content in petcoke, increased firing should lead to reductions in the emissions of PM, PM₁₀ and Pb. The Department notes that the emissions of nickel and vanadium are not subject to PSD, but may subject the facility to a future MACT requirement.

6.2 CARBON MONOXIDE (CO) AND VOLATIVE ORGANIC COMPOUNDS (VOC)

The applicant contends that there will be no increase in CO or VOC emissions from the increased co-firing of petcoke. The annual CO emissions for these emission units averaged 13677.5 TPY, while annual VOC emissions averaged 118.5 TPY. The Significant Emission Rate for CO is 100 TPY, and for VOC is 40 TPY. Given that the available data shows reduced CO and VOC emissions from the firing of petcoke as compared to coal, the Department finds it unlikely that the increased co-firing of petcoke will cause annual emissions to exceed the PSD thresholds of each pollutant beyond representative past emission rates. Accordingly, a BACT review is not required for these pollutants.

6.3 NITROGEN OXIDE (NO_x)

Test results from other facilities indicate that NO_x emissions are typically less for petcoke firing as compared to coal firing. The annual NO_x emissions for these emission units averaged 26558.8 TPY and the Significant Emission Rate for NO_x is 40 TPY. The Department accepts the premise that increased petcoke firing (and decreased coal firing) will not cause annual NO_x emissions to increase, nor specifically to exceed an average of 26598.7 TPY per emission unit. Accordingly, a BACT review is not required.

6.4 SULFUR DIOXIDE (SO₂) AND SULFURIC ACID MIST (SAM)

The past actual average emissions of SO₂ and SAM were 21718.8 and 1316.9 TPY respectively. The Significant Emission Rate (SER) is 40 TPY for SO₂ and 7 TPY for SAM. The Department accepts the applicant's proposal that SO₂ and SAM emissions can be maintained below the respective SER by additional scrubbing with the existing wet FGD. The applicant additionally proposes to reduce the SO₂ limit (while co-firing) below the existing permit limit, as an additional means of providing assurance to the Department that SO₂ (as well as SAM) emissions will not increase. The combination of additional scrubbing and a reduced emission limit is acceptable to the Department and should ensure that the annual emission levels of SO₂ and SAM do not exceed the PSD thresholds for each pollutant beyond representative past emission rates (21758.7 TPY SO₂ and 1323.8 TPY SAM). In addition to this, the Department will place a limit on the throughput of petcoke at 30% on a heat input basis. Accordingly, the SO₂ and SAM emission increases are considered insignificant for PSD purposes and BACT reviews are not required.

6.5 PARTICULATE MATTER (PM/PM₁₀)

As indicated above, it is reasonable to assume that PM₁₀ and PM emissions will be lowered as a result of the ten-fold decrease in fuel ash. Accordingly, the annual PM/PM₁₀ emissions from the stack are likely to be maintained with no increase above the PSD significant emission rate of 25/15 tons/year.

With regard to ancillary (or fugitive) emissions, the applicant estimates that particulate matter emissions will be reduced. This is based upon the increased heat input value of petcoke as compared to coal, meaning that a reduction in the overall tons of fuel handled will occur. In summary, the average PM/PM₁₀ emissions from each emission unit are likely to remain less than the PSD thresholds for each pollutant and no PSD Review is required.

6.6 SUMMARY

A preliminary review supports the applicant's contention that PSD is not triggered, eliminating the requirement for a BACT review and related modeling. PSD regulations (under the provisions commonly known as the "WEPCO rule") allow a source undertaking a non-routine change that could affect emissions at an electric utility steam generating unit to lawfully avoid the major source permitting process by using the unit's representative actual annual emissions to calculate emissions following the change, if the source submits information for 5 years following the change to confirm its pre-change projection. Under the WEPCO rule, SJRPP must compute baseline actual emissions and must project the future actual emissions from the modified units for a period after the physical change. In addition, SJRPP must maintain and submit to the Department on an annual basis for a period of at least 5 years

TECHNICAL EVALUATION AND FINAL DETERMINATION

from the date the units resume regular operation, information demonstrating that the change did not result in a significant emissions increase. If SJRPP fails to comply with the reporting requirements of the WEPCO rule or if the submitted information indicates that emissions have increased above PSD thresholds as a consequence of the change, it will be required to obtain a PSD permit for petcoke co-firing (meaning that a BACT Review would then be applicable). Finally, even though a PSD review is not triggered due to the co-firing project, SJRPP must meet all other applicable federal, state, and local air pollution requirements.

7. ADDITIONAL COMPLIANCE PROCEDURES (AVERAGE PER EMISSION UNIT)

| Pollutant | Compliance Procedures |
|-----------------|--|
| NO _x | Five years of annual reporting by CEMS proving annual emissions do not exceed 26598.7 TPY |
| CO | Five years of annual reporting by stack test proving annual emissions do not exceed 13776.5 TPY |
| VOC | Five years of annual reporting by historical AOR methods, proving annual emissions do not exceed 158.5 TPY |
| SO ₂ | Five years of annual reporting by CEMS proving annual emissions do not exceed 21758.7 TPY |
| SAM | Five years of annual reporting by stack test proving annual emissions do not exceed 1323.8 TPY |
| PM | Five years of annual reporting by stack test proving annual facility emissions do not exceed 346.7 TPY |

Specific permit conditions shall further describe these limitations. The reporting procedures are to begin during the first calendar year in which petcoke is fired.

8. CONCLUSION

Based on the foregoing technical evaluation of the application, additional information submitted by the applicant and other available information, the Department has made a final determination that the proposed project will comply with all applicable state and federal air pollution regulations.

Michael P. Halpin, P.E. Review Engineer
Department of Environmental Protection, Bureau of Air Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

9. 2006 REVISION

The tables within Section 4.1 and 7 herein are revised as of March of 2006 in order to more accurately reflect historical carbon monoxide emissions, since the related permit references these tables. The data reflected within this revision is based upon historical CEMS data which the Department considers more accurate than AP-42 emission factors (see 62-210.370, F.A.C.).

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Paul Smith, Plant Manager
 JEA-St. Johns River Power Park
 11201 New Berlin Road
 Jacksonville, Florida 32226

2. Article Number
 (Transfer from service label)

7000 1670 0013 3110 1656

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X. *Jeff Smith*

- Agent
 Addressee

B. Received by (Printed Name)

Jeff Smith

C. Date of Delivery

4-4-08

D. Is delivery address different from item 1? Yes

If YES, enter delivery address below: No

3. Service Type

- Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee)

Yes

**U.S. Postal Service
 CERTIFIED MAIL RECEIPT**

(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

Postage \$

Certified Fee

Return Receipt Fee
 (Endorsement Required)

Restricted Delivery Fee
 (Endorsement Required)

Postmark Here

To: Mr. James M. Chansler
 Ser: V.P. Operations and Maintenance
 Str: JEA
 Cit: St. Johns River Power Park
 21 West Church Street
 Jacksonville, Florida 32202

PS Form 3800, May 2000

See Reverse for Instructions

**U.S. Postal Service
 CERTIFIED MAIL RECEIPT**

(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

Postage \$

Certified Fee

Return Receipt Fee
 (Endorsement Required)

Restricted Delivery Fee
 (Endorsement Required)

Postmark Here

To: Mr. Paul Smith, Plant Manager
 Str: JEA-St. Johns River Power Park
 Cit: 11201 New Berlin Road
 Jacksonville, Florida 32226

PS Form 3800, May 2000

See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. James M. Chansler
 V.P. Operations and Maintenance
 JEA
 St. Johns River Power Park
 21 West Church Street
 Jacksonville, Florida 32202

2. Article Number
 (Transfer from service label)

7000 1670 0013 3110 0789

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X. *Robert J. Perry*

- Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

4-4-08

D. Is delivery address different from item 1? Yes

If YES, enter delivery address below: No

3. Service Type

- Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee)

Yes

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BUREAU OF AIR REGULATION



March 14, 2006

Ms. Trina L. Vielhauer, Chief Bureau of Air Regulation
Bureau of Air Regulation
Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, FL 32399

Attention: Mr. Mike Halpin, P.E., New Review Section

RE: Northside Generating Station/St. Johns River Power Park (SJRPP)
Title V Permit 0310045-014-AC; PSD-FL-10

Dear Mr. Halpin:

SJRPP has evaluated the suggestions in the Department's letter dated October 20, 2005 related to the annual emissions of carbon monoxide reported for Units 1 and 2. Specifically, SJRPP evaluated the Department suggestions stated below:

“ You are encouraged to use due diligence in ensuring that:

1. Historical emissions are accurate, and that submittals to this Department are appropriately reflective of actual operation and conditions, and
2. Emissions which increase or decrease as a result of the authorization within DEP File No. 0310045-014-AC are accounted for.”

As summarized in our letter of September 29, 2005, the annual CO emissions submitted are part of the application and included in the Department's authorization were from the annual operating reports (AORs). The historical CO emission rates reported in the AOR were developed using AP-42 emission factors. The use of these factors was an artifact of the AOR preparation and not representative of the historical stack test data. Stack tests data were performed using EPA Method 10 during the 5-years from 1997 through 2001 to fulfill the Department's requirement that CO emissions did not result in a significant net increase as a result of co-firing up to 20 percent petroleum coke by weight with coal. While the average CO emissions during this 5-year period was 0.123 lb/MMBtu, it was quite variable between years and units suggesting that even individual stack tests may not be appropriate to determine accurate historical emissions.

In addition, the Department's recent adoption of Rule 62-210.370 Emissions Computation and Reporting, clearly outlines the preferred approach for determining the most accurate computation of annual emissions through a hierarchy of technical methods. In summary, the preferred hierarchy in Rule 62-210.370 is:

- continuous emission monitoring systems (CEMS) including continuous parameter monitoring systems (CPMS) and predictive emissions monitoring systems (PEMS),
- mass-balance, and
- emission factors.

SJRPP Units 1 and 2 have been equipped with CEMS for SO₂ and NO_x since these units began operation. The SO₂ and NO_x monitors (as well as diluent monitoring) have been used for compliance purposes. In the mid-1990's, CO monitors were added for operational purposes and not required for compliance or any other applicable requirement. The CO monitoring data is obtained in the same way the SO₂ and NO_x data and electronically stored. Relatively accuracy tests audits (RATA) were performed 2001, 2003, and 2004. With the exception of the 2003 RATA for Unit 1, all RATA passed the requirements. Since CO CEMS were not included in any applicable requirement for Units 1 and 2 these RATA reports were not previously submitted to the Department. In light of the Department's letter of October 20, 2005 and the promulgation of Rule 62-210.370 F.A.C., the use of the existing continuous CO monitors for reporting historical emissions would be the most appropriate method. However, to make sure these monitors were still fully functional and appropriate for this purpose, SJRPP scheduled and conducted a RATA of the CO monitors in November 2005. The results of the RATA determined that the CO monitors passed the criteria. The RATA test report is attached. Therefore, SJRPP proposes to use the CO CEMS for obtaining and reporting historical CO emissions.

Table CO-CEMS presents data for 2000 through 2004 obtained from the CO CEMS. Recognizing that the information in the AORs did not represent the most accurate method for calculating historical CO emissions, revisions to the AORS will be submitted for CO for the years 2000 through 2004 with the 2005 AOR due March 1, 2006. The AOR for 2005 and future years will use the CO CEMS and the RATA reports will be submitted to the compliance authority on the same schedule as that for the SO₂ and NO_x CEMS.

Based on the updated information on CO emissions, SJRPP requests that the table contained in the Technical Evaluation and Preliminary Determination be revised as indicated below:

| Pollutant | 2001 Actual Emissions (TPY) | 2002 Actual Emissions (TPY) | 2001-2002 Average (TPY) | PSD Significant Emission Rates (TPY) | Maximum average Emission Rate without a PSD review (TPY) |
|------------------|-----------------------------|-----------------------------|-------------------------|--------------------------------------|--|
| NO _x | 26379.1 | 26738.5 | 26558.8 | 40 | 26598.7 |
| CO | 14,463.5 | 12,891.6 | 13,677.5 | 100 | 13,776.5 |
| VOC | 118.873 | 118.179 | 118.53 | 40 | 158.5 |
| SO ₂ | 22535.41 | 20902.199 | 21718.8 | 40 | 21758.7 |
| SAM | 1311.0 | 1322.9 | 1316.9 | 7 | 1323.8 |
| PM | 317.258 | 326.2401 | 321.75 | 25 | 346.7 |
| PM ₁₀ | 72.964 | 75.596 | 74.28 | 15 | 89.2 |
| Pb | 1.21 | 0.81 | 1.01 | 0.6 | 1.59 |

Note: Years 2001 and 2002 were proposed by the applicant as a "representative" period for comparison to future emissions.

No changes are required in the permit conditions issued by the Department. The requested change would only affect the basis for comparing future actual emissions of CO with the historical emissions for 2001-2002. The SJRPP appreciates the Department's consideration in this matter. Please call Mr. Jay Worley at (904) 665-8729 or our environmental consultant Mr. Ken Kosky, P.E. (352) 336-5600 if there are any questions.

Sincerely,

A handwritten signature in black ink that reads "Paul M. Smith". The signature is written in a cursive style with a large initial "P" and "S".

Paul M. Smith
Alternate Responsible Official
Plant Manager
St. Johns River Power Park

Enclosures

cc: Hamilton Oven, P.E., Siting Coordination Office
Jay Worley, SJRPP
Ken Kosky, Golder & Associates

Table CO-CEMS. Historical CO Emissions Using Continuous Emissions Monitors

| Year | Unit | Heat Input (MMBtu) | CO CEMs (lb/MMBtu) | CEMs Total Tons Per Unit | CEMs Total Tons Per Plant |
|--|------|-----------------------|-----------------------|--------------------------------|---------------------------------|
| 2000 | 1 | 49,485,420 | 0.327 | 8,090.9 | 15,590.8 |
| | 2 | 45,454,152 | 0.330 | 7,499.9 | |
| 2001 | 1 | 47,963,552 | 0.239 | 5,731.6 | 14,463.5 |
| | 2 | 48,645,432 | 0.359 | 8,731.9 | |
| 2002 | 1 | 50,932,641 | 0.262 | 6,672.2 | 12,891.6 |
| | 2 | 44,905,573 | 0.277 | 6,219.4 | |
| 2003 | 1 | 44,949,751 | 0.251 | 5,641.2 | 11,927.6 |
| | 2 | 48,171,325 | 0.261 | 6,286.4 | |
| 2004 | 1 | 50,640,690 | 0.188 | 4,760.2 | 9,716.2 |
| | 2 | 38,718,787 | 0.256 | 4,956.0 | |
| 2001 and 2002 used as baseline emissions | | | | | 13,677.5 |



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BUREAU OF AIR REGULATION

1531 Wyngate Drive DeLand, FL 32724

Phone (386) 943 9241 / Cell (386) 451-0169 / Fax (386) 943 9212

COMPLETE EMISSIONS TESTING SERVICES • PERMITTING ASSISTANCE • CEMS CERTIFICATION • AMBIENT AIR MONITORING

Emissions Test Report
No. 130-023

ST. JOHNS RIVER POWER PARK

Units 1 & 2

**CARBON MONOXIDE
RELATIVE ACCURACY TEST AUDIT REPORT**

Prepared for:

St. Johns River Power Park
11201 New Berlin Road
Jacksonville, FL 32226

Prepared by:

Coastal Air Consulting, Inc.
1531 Wyngate Dr.
DeLand, FL 32724
(386) 943-9241

December 17, 2005

STATEMENT OF VALIDITY

All testing activities and results represented herein were conducted and obtained in accordance with the approved EPA methods listed in 40 CFR Part 60. The contents have been reviewed and verified to be true and correct.

Stephen C. Webb

Stephen C. Webb
President

Coastal Air Consulting, Inc.
1531 Wyngate Dr.
DeLand, FL 32724
(386) 943-9241

PROJECT STATISTICS

Client: St. Johns River Power Park

Facility: SJRPP Units 1 & 2

Location: 11201 New Berlin Road
Jacksonville, FL 32226

Type of Process Tested: Coal Fired Utility Steam Generating Unit

Test Protocols Performed: Carbon Monoxide-EPA Method 10
Oxygen/Carbon Dioxide-EPA Method 3A

Source Analyzers: TECO CO – 48C

Testing Firm: Coastal Air Consulting, Inc.
1531 Wyngate Dr.
DeLand, FL 32724

Test Personnel: Steve Webb Site Supervisor
Bob Righter Chemist
Taylor Smith Technician

Test Date: December 9 & 10, 2005

Client Representative: Bruce Kofler

Observers: William Coffman City of Jacksonville

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- 3 Results of Testing
- 4 Description of Source
- 5 Sampling Procedures
- 6 Operating Conditions
- 7 Quality Assurance

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1.0 Introduction

Coastal Air Consulting, Inc. (Coastal) was contracted by SJRPP to determine the relative accuracy of the Continuous Emissions Monitoring System (CEMS) Carbon Monoxide (CO) at the SJRPP Units 1 & 2 Stack in Jacksonville, Florida.

The sampling program was conducted the week of November 7, 2005. The RATA was performed by Coastal personnel. Mr. Bruce Kofler of SJRPP coordinated plant operations during testing activities.

2.0 Test Program Summary

A summary of test results developed by this source sampling program is presented in Table 1.

TABLE 1
Relative Accuracy Summary
Unit 1

| PARAMETERS | LOCATION | RELATIVE ACCURACY | ALLOWABLE |
|---------------------|----------|-------------------|-----------|
| CO (ppm) | Stack | 4.936 | 10% |
| CO (lb/mmbtu) | Stack | 9.595 | 10% |
| CO ₂ (%) | Stack | 4.573 | 20% |

TABLE 1
Relative Accuracy Summary
Unit 2

| PARAMETERS | LOCATION | RELATIVE ACCURACY | ALLOWABLE |
|---------------------|----------|-------------------|-----------|
| CO (ppm) | Stack | 9.473 | 10% |
| CO (lb/mmbtu) | Stack | 6.655 | 10% |
| CO ₂ (%) | Stack | 3.048 | 20% |

3.0 Results of Testing

These results indicate that Units 1 & 2 passes the RATA at the time of testing under normal operating conditions. The Individual test run results are tabulated in Appendix 1.

4.0 Description of Source

SJRPP Units 1 & 2 are coal fired utility steam generators. The flue gas is exhausted through the Units 1 & 2 stack. A schematic of the process and stack sampling location is included in Appendix 3 "Figures".

5.0 Sampling Procedures

EPA testing protocols utilized during this test program include the following;

- | | |
|---------------|---|
| EPA Method 10 | Determination of Carbon Monoxide Emissions From Stationary Sources (Instrumental Analyzer Method) |
| EPA Method 3A | Gas Analysis for CO ₂ , O ₂ , Excess Air and Dry Molecular Weight (Instrumental Analyzer Method) |
| EPA Method 4 | Determination of Moisture Content in Stack Gas |

6.0 Operating Conditions

SJRPP personnel monitored operating conditions throughout the duration of the sampling program.

7.0 Quality Assurance Procedures

Quality assurance procedures followed during these testing activities were applied consistent with the requirements outlined by the EPA methods referenced in 40 CFR Part 60. Analyzer calibrations, system bias and drift checks were completed before and after each sample run utilizing EPA Protocol 1 calibration gases.

APPENDIX 1
Reference Data

UNIT 1

COASTAL AIR CONSULTING, INC.

CO PPM RELATIVE ACCURACY

CLIENT: St. Johns River Power Park TECO
 SITE: SJRPP MODEL # 48
 UNIT: 1
 LOAD: Normal
 DATE: 11/10/05

| RUN | TIME START | TIME END | REFERENCE METHOD* (PPM) | CEM RESPONSE (PPM) | ARITHMATIC DIFFERENCE | DIFFERENCE SQUARED | |
|-----|---------------|-------------|-------------------------------|--------------------------|--------------------------|-------------------------|-------------------------------|
| 1 | 10:15 | 10:36 | 105.903 | 101.900 | 4.003 | 16.02421694 | |
| 2 | 10:47 | 11:08 | 111.992 | 109.300 | 2.692 | 7.24471519 | |
| 3 | 11:21 | 11:42 | 134.257 | 133.800 | 0.457 | 0.20881646 | |
| 4 | 11:53 | 12:14 | 110.298 | 106.000 | 4.298 | 18.46884756 | |
| 5 | 12:24 | 12:45 | 116.166 | 109.400 | 6.766 | 45.77783859 | |
| 6 | 13:04 | 13:25 | 78.220 | 73.200 | 5.020 | 25.20039313 | |
| 7 | 13:33 | 13:54 | 72.475 | 71.000 | 1.475 | 2.17548120 | |
| 8 | 14:03 | 14:24 | 86.922 | 82.900 | 4.022 | 16.17693777 | |
| 9 | 14:37 | 14:58 | 75.918 | 74.600 | 1.318 | 1.73843647 | |
| | | | | AVERAGE | AVERAGE | SUM OF DIFF. | SUM OF THE SQUARES |
| | | | | 99.128 | 95.789 | 30.051 | 133.0156833 |

****MEAN DIFFERENCE, d (Eq. A-7)** 3.339
****STANDARD DEVIATION, Sd (Eq. A-8)** 2.02
****CONFIDENCE COEFFICIENT, |CC| (Eq. A-9)** 1.554

****PERCENT (%) RELATIVE ACCURACY, RA (Eq. A-10)** 4.936

COASTAL AIR CONSULTING, INC.

CO LB/MMBTU RELATIVE ACCURACY

CLIENT: St. Johns River Power Park TECO
 SITE: SJRPP MODEL # 48
 UNIT: 1
 LOAD: Normal
 DATE: 11/10/05

| RUN | TIME START | TIME END | REFERENCE METHOD* (LB/mmBtu) | CEM RESPONSE (LB/mmBtu) | ARITHMATIC DIFFERENCE | DIFFERENCE SQUARED | |
|-----|---------------|-------------|------------------------------------|-------------------------------|--------------------------|-----------------------|-----------------------|
| 1 | 10:15 | 10:36 | 0.122 | 0.112 | 0.010 | 0.00010000 | |
| 2 | 10:47 | 11:08 | 0.128 | 0.120 | 0.008 | 0.00006400 | |
| 3 | 11:21 | 11:42 | 0.154 | 0.147 | 0.007 | 0.00004900 | |
| 4 | 11:53 | 12:14 | 0.127 | 0.116 | 0.011 | 0.00012100 | |
| 5 | 12:24 | 12:45 | 0.134 | 0.120 | 0.014 | 0.00019600 | |
| 6 | 13:04 | 13:25 | 0.091 | 0.081 | 0.010 | 0.00010000 | |
| 7 | 13:33 | 13:54 | 0.083 | 0.079 | 0.004 | 0.00001600 | |
| 8 | 14:03 | 14:24 | 0.100 | 0.092 | 0.008 | 0.00006400 | |
| 9 | 14:37 | 14:58 | 0.087 | 0.083 | 0.004 | 0.00001600 | |
| | | | | AVERAGE | AVERAGE | SUM OF DIFF. | SUM OF THE SQUARES |
| | | | | 0.114 | 0.106 | 0.076 | 0.0007260 |

****MEAN DIFFERENCE, d (Eq. A-7)** 0.008
****STANDARD DEVIATION, Sd (Eq. A-8)** 0.00
****CONFIDENCE COEFFICIENT, |CC| (Eq. A-9)** 0.002

****PERCENT (%) RELATIVE ACCURACY, RA (Eq. A-10)** 9.595

COASTAL AIR CONSULTING, INC.

CO2 % RELATIVE ACCURACY

CLIENT: St. Johns River Power Park
 SITE: SJRPP
 UNIT: 1
 LOAD: Normal
 DATE: 11/10/05

TECO
 MODEL # 41H
 SERIAL # 41H-49357-282

| RUN | TIME START | TIME END | REFERENCE METHOD* (% CO2) | CEM RESPONSE (% CO2) | ARITHMATIC DIFFERENCE | DIFFERENCE SQUARED | |
|-----|---------------|-------------|---------------------------------|----------------------------|--------------------------|-----------------------|-----------------------|
| 1 | 10:15 | 10:36 | 11.40 | 11.80 | -0.399 | 0.160 | |
| 2 | 10:47 | 11:08 | 11.48 | 11.93 | -0.454 | 0.206 | |
| 3 | 11:21 | 11:42 | 11.40 | 11.96 | -0.561 | 0.314 | |
| 4 | 11:53 | 12:14 | 11.39 | 11.90 | -0.506 | 0.256 | |
| 5 | 12:24 | 12:45 | 11.36 | 11.85 | -0.487 | 0.237 | |
| 6 | 13:04 | 13:25 | 11.24 | 11.79 | -0.551 | 0.304 | |
| 7 | 13:33 | 13:54 | 11.46 | 11.75 | -0.288 | 0.083 | |
| 8 | 14:03 | 14:24 | 11.35 | 11.77 | -0.422 | 0.178 | |
| 9 | 14:37 | 14:58 | 11.36 | 11.80 | -0.437 | 0.191 | |
| | | | | AVERAGE | AVERAGE | SUM OF DIFF. | SUM OF THE SQUARES |
| | | | | 11.38 | 11.84 | -4.105 | 1.928 |

**MEAN DIFFERENCE, d (Eq. A-7) -0.456

**STANDARD DEVIATION, Sd (Eq. A-8) 0.084

**CONFIDENCE COEFFICIENT, |CC| (Eq. A-9) 0.064

**PERCENT (%) RELATIVE ACCURACY, RA (Eq. A-10) 4.573

REFERENCE METHOD VALUES
MOISTURE CORRECTION
SJRPP 1
CO

| RUN # | REFERENCE METHOD (ppm%, dry) | MOISTURE (%) | MOISTURE CORRECTION (1-moisture/100) | REFERENCE METHOD (ppm%, wet) |
|---------------|---------------------------------|--------------|---|---------------------------------|
| CO ppm | | | | |
| 1 | 122.99 | 13.89 | 0.861 | 105.90 |
| 2 | 129.50 | 13.52 | 0.865 | 111.99 |
| 3 | 156.64 | 14.29 | 0.857 | 134.26 |
| 4 | 128.17 | 13.94 | 0.861 | 110.30 |
| 5 | 135.35 | 14.17 | 0.858 | 116.17 |
| 6 | 91.52 | 14.53 | 0.855 | 78.22 |
| 7 | 83.34 | 13.04 | 0.870 | 72.47 |
| 8 | 101.26 | 14.16 | 0.858 | 86.92 |
| 9 | 87.99 | 13.72 | 0.863 | 75.92 |
| CO2 % | | | | |
| 1 | 13.24 | 13.89 | 0.861 | 11.40 |
| 2 | 13.27 | 13.52 | 0.865 | 11.48 |
| 3 | 13.30 | 14.29 | 0.857 | 11.40 |
| 4 | 13.24 | 13.94 | 0.861 | 11.39 |
| 5 | 13.24 | 14.17 | 0.858 | 11.36 |
| 6 | 13.15 | 14.53 | 0.855 | 11.24 |
| 7 | 13.18 | 13.04 | 0.870 | 11.46 |
| 8 | 13.22 | 14.16 | 0.858 | 11.35 |
| 9 | 13.17 | 13.72 | 0.863 | 11.36 |

UNIT 1 CO RATA TEST DATA SHEET

Client: St. Johns River Power Park

Site: SJRPP 1

Bar. Pressure (in.Hg):

29.70

Load: Normal

Method: 1 - 2

Run Number: 1-3

Date:

11/10/05

Operators: RRR/JTS

MOISTURE TEST FIELD DATA SHEET

Meter Box#: CAC 1

Method: 4

Run Number: 1

Ini. Leak Rate: 0.000 @10"

Impinger Set: D

Fin. Leak Rate: 0.000 @10"

Yi 0.972

Sample Head: B

| POINT | CLOCK TIME | SAMPLE TIME | VOLUME | ORIFICE ^H | METER | | VAC. (IN.HG) | IMPINGER TEMP |
|-------|------------|-------------|---------|---------------|----------|------|-----------------|------------------|
| | | | 370.100 | | TEMP (F) | | | |
| 1 | 10:15 | 10 | 378.2 | 1.80 | 87 | 87 | 3.0 | 54 |
| 2 | | 20 | 385.1 | 1.80 | 90 | 90 | 3.0 | 56 |
| 3 | 10:45 | 30 | 393.869 | 1.80 | 91 | 91 | 3.0 | 54 |
| | | | 23.769 | 1.800 | 89.3 | 89.3 | | |
| | | | | | | 89.3 | | |

H2O COLLECTED (g) =

75.4

VOL WATER COLLECTED (SCF) =

3.56

GAS SAMPLED (DSCF) =

22.034

MOISTURE IN STACK GAS (% VOL) =

13.89

MOISTURE TEST FIELD DATA SHEET

Meter Box #: CAC 1

Method: 4

Run Number: 2

Ini. Leak Rate: 0.000 @10"

Impinger Set: D

Fin. Leak Rate: 0.000 @10"

Yi 0.972

Sample Head: B

| POINT | CLOCK TIME | SAMPLE TIME | VOLUME | ORIFICE ^H | METER | | VAC. (IN.HG) | IMPINGER TEMP |
|-------|------------|-------------|---------|---------------|----------|------|-----------------|------------------|
| | | | 394.000 | | TEMP (F) | | | |
| 1 | 10:47 | 10 | 402.3 | 1.80 | 92 | 92 | 3.0 | 55 |
| 2 | | 20 | 410.7 | 1.80 | 93 | 93 | 3.0 | 56 |
| 3 | 11:17 | 30 | 418.596 | 1.80 | 94 | 94 | 3.0 | 58 |
| | | | 24.596 | 1.800 | 93.0 | 93.0 | | |
| | | | | | | 93.0 | | |

H2O COLLECTED (g) =

75.1

VOL WATER COLLECTED (SCF) =

3.54

GAS SAMPLED (DSCF) =

22.650

MOISTURE IN STACK GAS (% VOL) =

13.52

MOISTURE TEST FIELD DATA SHEET

Meter Box #: CAC 1

Method: 4

Run Number: 3

Ini. Leak Rate: 0.000 @10"

Impinger Set: D

Fin. Leak Rate: 0.000 @10"

Yi 0.972

Sample Head: B

| POINT | CLOCK TIME | SAMPLE TIME | VOLUME | ORIFICE ^H | METER | | VAC. (IN.HG) | IMPINGER TEMP |
|-------|------------|-------------|---------|---------------|----------|------|-----------------|------------------|
| | | | 420.413 | | TEMP (F) | | | |
| 1 | 11:21 | 10 | 428.7 | 1.80 | 93 | 93 | 3.0 | 54 |
| 2 | | 20 | 435.6 | 1.80 | 95 | 95 | 3.0 | 54 |
| 3 | 11:51 | 30 | 444.549 | 1.80 | 95 | 95 | 3.0 | 56 |
| | | | 24.136 | 1.800 | 94.3 | 94.3 | | |
| | | | | | | 94.3 | | |

H2O COLLECTED (g) =

78.4

VOL WATER COLLECTED (SCF) =

3.70

GAS SAMPLED (DSCF) =

22.173

MOISTURE IN STACK GAS (% VOL) =

14.29

UNIT 1 CO RATA TEST DATA SHEET

Client: St. Johns River Power Park

Site: SJRPP 1

Bar. Pressure (in.Hg):

29.70

Load: Normal

Method: 1 - 2

Run Number: 4 - 6

Date:

11/10/05

Operators: RRR/JTS

MOISTURE TEST FIELD DATA SHEET

Meter Box #: CAC 1

Method: 4

Run Number: 4

Ini. Leak Rate: 0.000 @10"

Impinger Set: D

Fin. Leak Rate: 0.000 @10"

Yi 0.972

Sample Head: B

| POINT | CLOCK TIME | SAMPLE TIME | VOLUME | ORIFICE "H | METER | | VAC. (IN.HG) | IMPINGER TEMP |
|-------|------------|-------------|---------|---------------|----------|------|-----------------|------------------|
| | | | 444.604 | | TEMP (F) | | | |
| 1 | 11:53 | 10 | 451.5 | 1.80 | 94 | 94 | 3.0 | 54 |
| 2 | | 20 | 458.3 | 1.80 | 95 | 95 | 3.0 | 55 |
| 3 | 12:05 | 30 | 469.340 | 1.80 | 96 | 96 | 3.0 | 56 |
| | | | 24.736 | 1.800 | 95.0 | 95.0 | | |
| | | | | | 95.0 | | | |

H2O COLLECTED (g) =

78.0

VOL WATER COLLECTED (SCF) =

3.68

GAS SAMPLED (DSCF) =

22.696

MOISTURE IN STACK GAS (% VOL) =

13.94

MOISTURE TEST FIELD DATA SHEET

Meter Box #: CAC 1

Method: 4

Run Number: 5

Ini. Leak Rate: 0.000 @8"

Impinger Set: D

Fin. Leak Rate: 0.000 @8"

Yi 0.972

Sample Head: B

| POINT | CLOCK TIME | SAMPLE TIME | VOLUME | ORIFICE "H | METER | | VAC. (IN.HG) | IMPINGER TEMP |
|-------|------------|-------------|---------|---------------|----------|------|-----------------|------------------|
| | | | 469.402 | | TEMP (F) | | | |
| 1 | 12:24 | 10 | 477.4 | 1.80 | 95 | 95 | 3.0 | 54 |
| 2 | | 20 | 485.3 | 1.80 | 95 | 95 | 3.0 | 56 |
| 3 | 12:54 | 30 | 493.345 | 1.80 | 96 | 96 | 3.0 | 58 |
| | | | 23.943 | 1.800 | 95.3 | 95.3 | | |
| | | | | | 95.3 | | | |

H2O COLLECTED (g) =

76.9

VOL WATER COLLECTED (SCF) =

3.63

GAS SAMPLED (DSCF) =

21.956

MOISTURE IN STACK GAS (% VOL) =

14.17

MOISTURE TEST FIELD DATA SHEET

Meter Box #: CAC 1

Method: 4

Run Number: 6

Ini. Leak Rate: 0.000 @10"

Impinger Set: D

Fin. Leak Rate: 0.000 @10"

Yi 0.972

Sample Head: B

| POINT | CLOCK TIME | SAMPLE TIME | VOLUME | ORIFICE "H | METER | | VAC. (IN.HG) | IMPINGER TEMP |
|-------|------------|-------------|---------|---------------|----------|------|-----------------|------------------|
| | | | 493.401 | | TEMP (F) | | | |
| 1 | 13:04 | 10 | 500.1 | 1.80 | 95 | 95 | 3.0 | 52 |
| 2 | | 20 | 507.4 | 1.80 | 95 | 95 | 3.0 | 54 |
| 3 | 13:34 | 30 | 516.595 | 1.80 | 96 | 96 | 3.0 | 55 |
| | | | 23.194 | 1.800 | 95.3 | 95.3 | | |
| | | | | | 95.3 | | | |

H2O COLLECTED (g) =

76.7

VOL WATER COLLECTED (SCF) =

3.62

GAS SAMPLED (DSCF) =

21.269

MOISTURE IN STACK GAS (% VOL) =

14.53

UNIT 1 CO RATA TEST DATA SHEET

Client: St. Johns River Power Park

Site: SJRPP 1

Bar. Pressure (in.Hg):

29.70

Load: Normal

Method: 1 - 2

Run Number: 7 - 9

Date:

11/10/05

Operators: RRR/JTS

MOISTURE TEST FIELD DATA SHEET

Meter Box #: CAC 1

Method: 4

Run Number: 7

Ini. Leak Rate: 0.000 @10"

Impinger Set: D

Fin. Leak Rate: 0.000 @10"

Yi 0.972

Sample Head: B

| POINT | CLOCK TIME | SAMPLE TIME | VOLUME | ORIFICE ^H | METER | | VAC. (IN.HG) | IMPINGER TEMP |
|-------|------------|-------------|---------|---------------|----------|------|-----------------|------------------|
| | | | 516.750 | | TEMP (F) | | | |
| 1 | 13:33 | 10 | 523.3 | 1.80 | 95 | 95 | 3.0 | 54 |
| 2 | | 20 | 532.4 | 1.80 | 95 | 95 | 3.0 | 58 |
| 3 | 14:03 | 30 | 540.710 | 1.80 | 95 | 95 | 3.0 | 56 |
| | | | 23.960 | 1.800 | 95.0 | 95.0 | | |
| | | | | | | 95.0 | | |

H2O COLLECTED (g) = 69.9 VOL WATER COLLECTED (SCF) = 3.30
 GAS SAMPLED (DSCF) = 21.984 MOISTURE IN STACK GAS (% VOL) = 13.04

MOISTURE TEST FIELD DATA SHEET

Meter Box #: CAC 1

Method: 4

Run Number: 8

Ini. Leak Rate: 0.000 @10"

Impinger Set: D

Fin. Leak Rate: 0.000 @10"

Yi 0.972

Sample Head: B

| POINT | CLOCK TIME | SAMPLE TIME | VOLUME | ORIFICE ^H | METER | | VAC. (IN.HG) | IMPINGER TEMP |
|-------|------------|-------------|---------|---------------|----------|------|-----------------|------------------|
| | | | 540.300 | | TEMP (F) | | | |
| 1 | 14:03 | 10 | 547.9 | 1.80 | 95 | 95 | 3.0 | 54 |
| 2 | | 20 | 555.5 | 1.80 | 94 | 94 | 3.0 | 54 |
| 3 | 14:33 | 30 | 563.526 | 1.80 | 95 | 95 | 3.0 | 56 |
| | | | 23.226 | 1.800 | 94.7 | 94.7 | | |
| | | | | | | 94.7 | | |

H2O COLLECTED (g) = 74.6 VOL WATER COLLECTED (SCF) = 3.52
 GAS SAMPLED (DSCF) = 21.324 MOISTURE IN STACK GAS (% VOL) = 14.16

MOISTURE TEST FIELD DATA SHEET

Meter Box #: CAC 1

Method: 4

Run Number: 9

Ini. Leak Rate: 0.000 @10"

Impinger Set: D

Fin. Leak Rate: 0.000 @10"

Yi 0.972

Sample Head: B

| POINT | CLOCK TIME | SAMPLE TIME | VOLUME | ORIFICE ^H | METER | | VAC. (IN.HG) | IMPINGER TEMP |
|-------|------------|-------------|---------|---------------|----------|------|-----------------|------------------|
| | | | 563.601 | | TEMP (F) | | | |
| 1 | 14:37 | 10 | 571.2 | 1.80 | 94 | 94 | 3.0 | 52 |
| 2 | | 20 | 579.5 | 1.80 | 96 | 96 | 3.0 | 54 |
| 3 | 15:07 | 30 | 587.383 | 1.80 | 97 | 97 | 3.0 | 56 |
| | | | 23.782 | 1.800 | 95.7 | 95.7 | | |
| | | | | | | 95.7 | | |

H2O COLLECTED (g) = 73.5 VOL WATER COLLECTED (SCF) = 3.47
 GAS SAMPLED (DSCF) = 21.795 MOISTURE IN STACK GAS (% VOL) = 13.72

ST. JOHNS RIVER POWER PARK
UNIT NO. 1 OUTLET STACK (CO)

11/10/05

ANALYZER RESPONSE

| SPAN SETTING | GAS UNITS | TANK VALUE | ANALYZER VALUE | DIFF PPM | % SPAN | ANALYZER SERIAL # |
|--------------|-----------|------------|----------------|----------|--------|-------------------|
| 25 | O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 1420/B153 |
| | O2 % | 12.00 | 12.0 | 0.0 | 0.0 | |
| | O2 % | 22.50 | 22.5 | 0.0 | 0.0 | |
| 20 | CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 01410B139 |
| | CO2 % | 11.00 | 11.0 | 0.0 | 0.0 | |
| | CO2 % | 17.30 | 17.3 | 0.0 | 0.0 | |
| 2000 | CO ppm | 0.00 | 0.0 | 0.0 | 0.0 | 48C-71754-369 |
| | CO ppm | 1078.00 | 1076.0 | -2.0 | -0.1 | |
| | CO ppm | 1685.00 | 1680.0 | -5.0 | -0.3 | |

RUN 1 --- SYSTEM BIAS AND SYSTEM DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRETEST CHECK | % SPAN | POSTTEST CHECK | % SPAN | % DRIFT |
|-----------|----------------|---------------|--------|----------------|--------|---------|
| O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| O2 % | 12.00 | 12.0 | 0.0 | 12.0 | 0.0 | 0.0 |
| CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 11.00 | 11.0 | 0.0 | 11.0 | 0.0 | 0.0 |
| CO ppm | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO ppm | 1076.00 | 1083.0 | 0.4 | 1084.0 | 0.4 | 0.1 |

RUN 1 --- UNCORRECTED ANALYZER DATA

| DATE & TIME | O2 % | CO2 % | CO PPM |
|------------------|------|-------|--------|
| 11/10/2005 10:15 | 6.09 | 13.18 | 87.00 |
| 11/10/2005 10:16 | 5.98 | 13.26 | 150.50 |
| 11/10/2005 10:17 | 5.88 | 13.35 | 150.00 |
| 11/10/2005 10:18 | 5.84 | 13.44 | 152.00 |
| 11/10/2005 10:19 | 5.89 | 13.39 | 153.50 |
| 11/10/2005 10:20 | 5.95 | 13.35 | 150.50 |
| 11/10/2005 10:21 | 5.81 | 13.35 | 157.50 |
| 11/10/2005 10:22 | 5.99 | 13.35 | 151.50 |
| 11/10/2005 10:23 | 5.94 | 13.32 | 148.50 |
| 11/10/2005 10:24 | 6.13 | 13.22 | 129.50 |
| 11/10/2005 10:25 | 6.21 | 13.08 | 103.50 |
| 11/10/2005 10:26 | 6.18 | 13.09 | 101.00 |
| 11/10/2005 10:27 | 6.22 | 13.08 | 71.00 |
| 11/10/2005 10:28 | 6.23 | 13.06 | 58.00 |
| 11/10/2005 10:29 | 6.21 | 13.06 | 66.50 |
| 11/10/2005 10:30 | 6.15 | 13.08 | 72.50 |
| 11/10/2005 10:31 | 6.07 | 13.17 | 88.00 |
| 11/10/2005 10:32 | 6.01 | 13.25 | 122.00 |
| 11/10/2005 10:33 | 5.91 | 13.29 | 133.50 |
| 11/10/2005 10:34 | 5.86 | 13.37 | 155.00 |
| 11/10/2005 10:35 | 5.88 | 13.39 | 159.50 |
| 11/10/2005 10:36 | 5.97 | 13.30 | 158.50 |

AVERAGES 6.02 13.24 123.61

| | |
|-------------|------|
| FUEL FACTOR | 1800 |
|-------------|------|

| CORRECTED RESULTS | |
|-------------------|--------|
| O2 % | 6.02 |
| CO2 % | 13.24 |
| CO PPM | 122.99 |
| CO LB/MMBTU | 0.122 |

ST. JOHNS RIVER POWER PARK
UNIT NO. 1 OUTLET STACK (CO)

11/10/05

ANALYZER RESPONSE

| SPAN SETTING | GAS UNITS | TANK VALUE | ANALYZER VALUE | DIFF PPM | % SPAN | ANALYZER SERIAL # |
|--------------|-----------|------------|----------------|----------|--------|-------------------|
| 25 | O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 1420/B153 |
| | O2 % | 12.00 | 12.0 | 0.0 | 0.0 | |
| | O2 % | 22.50 | 22.5 | 0.0 | 0.0 | |
| 20 | CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 01410B139 |
| | CO2 % | 11.00 | 11.0 | 0.0 | 0.0 | |
| | CO2 % | 17.30 | 17.3 | 0.0 | 0.0 | |
| 2000 | CO ppm | 0.00 | 0.0 | 0.0 | 0.0 | 48C-71754-369 |
| | CO ppm | 1078.00 | 1076.0 | -2.0 | -0.1 | |
| | CO ppm | 1685.00 | 1680.0 | -5.0 | -0.3 | |

RUN 2 --- SYSTEM BIAS AND SYSTEM DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRETEST CHECK | % SPAN | POSTTEST CHECK | % SPAN | % DRIFT |
|-----------|----------------|---------------|--------|----------------|--------|---------|
| O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| O2 % | 12.00 | 12.0 | 0.0 | 12.0 | 0.0 | 0.0 |
| CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 11.00 | 11.0 | 0.0 | 11.0 | 0.0 | 0.0 |
| CO ppm | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO ppm | 1076.00 | 1084.0 | 0.4 | 1083.0 | 0.4 | -0.1 |

RUN 2 --- UNCORRECTED ANALYZER DATA

| DATE & TIME | O2 % | CO2 % | CO PPM |
|------------------|------|-------|--------|
| 11/10/2005 10:47 | 6.11 | 13.20 | 124.50 |
| 11/10/2005 10:48 | 6.01 | 13.25 | 123.50 |
| 11/10/2005 10:49 | 5.81 | 13.39 | 125.50 |
| 11/10/2005 10:50 | 5.93 | 13.37 | 157.50 |
| 11/10/2005 10:51 | 5.89 | 13.38 | 155.50 |
| 11/10/2005 10:52 | 5.93 | 13.36 | 155.50 |
| 11/10/2005 10:53 | 5.99 | 13.32 | 140.00 |
| 11/10/2005 10:54 | 5.97 | 13.32 | 153.00 |
| 11/10/2005 10:55 | 6.05 | 13.28 | 165.00 |
| 11/10/2005 10:56 | 6.08 | 13.23 | 126.50 |
| 11/10/2005 10:57 | 6.16 | 13.20 | 124.00 |
| 11/10/2005 10:58 | 6.18 | 13.10 | 87.50 |
| 11/10/2005 10:59 | 6.19 | 13.10 | 91.50 |
| 11/10/2005 11:00 | 6.09 | 13.19 | 122.00 |
| 11/10/2005 11:01 | 6.17 | 13.18 | 109.50 |
| 11/10/2005 11:02 | 6.14 | 13.14 | 99.50 |
| 11/10/2005 11:03 | 6.02 | 13.23 | 102.00 |
| 11/10/2005 11:04 | 6.08 | 13.23 | 112.50 |
| 11/10/2005 11:05 | 5.91 | 13.31 | 157.00 |
| 11/10/2005 11:06 | 5.85 | 13.38 | 144.50 |
| 11/10/2005 11:07 | 5.88 | 13.38 | 148.50 |
| 11/10/2005 11:08 | 5.89 | 13.37 | 140.50 |

AVERAGES 6.02 13.27 130.25

| | |
|-------------|------|
| FUEL FACTOR | 1800 |
|-------------|------|

| CORRECTED RESULTS | |
|-------------------|--------|
| O2 % | 6.02 |
| CO2 % | 13.27 |
| CO PPM | 129.59 |
| CO LB/MMBTU | 0.128 |

ST. JOHNS RIVER POWER PARK
UNIT NO. 1 OUTLET STACK (CO)

11/10/05

ANALYZER RESPONSE

| SPAN SETTING | GAS UNITS | TANK VALUE | ANALYZER VALUE | DIFF PPM | % SPAN | ANALYZER SERIAL # |
|--------------|-----------|------------|----------------|----------|--------|-------------------|
| 25 | O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 1420/B153 |
| | O2 % | 12.00 | 12.0 | 0.0 | 0.0 | |
| | O2 % | 22.50 | 22.5 | 0.0 | 0.0 | |
| 20 | CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 01410B139 |
| | CO2 % | 11.00 | 11.0 | 0.0 | 0.0 | |
| | CO2 % | 17.30 | 17.3 | 0.0 | 0.0 | |
| 2000 | CO ppm | 0.00 | 0.0 | 0.0 | 0.0 | 48C-71754-369 |
| | CO ppm | 1078.00 | 1076.0 | -2.0 | -0.1 | |
| | CO ppm | 1685.00 | 1680.0 | -5.0 | -0.3 | |

RUN 3 --- SYSTEM BIAS AND SYSTEM DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRETEST CHECK | % SPAN | POSTTEST CHECK | % SPAN | % DRIFT |
|-----------|----------------|---------------|--------|----------------|--------|---------|
| O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| O2 % | 12.00 | 12.0 | 0.0 | 12.0 | 0.0 | 0.0 |
| CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 11.00 | 11.0 | 0.0 | 11.0 | 0.0 | 0.0 |
| CO ppm | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO ppm | 1076.00 | 1083.0 | 0.4 | 1082.0 | 0.3 | -0.1 |

RUN 3 --- UNCORRECTED ANALYZER DATA

| DATE & TIME | O2 % | CO2 % | CO PPM |
|------------------|------|-------|--------|
| 11/10/2005 11:21 | 5.82 | 13.37 | 159.50 |
| 11/10/2005 11:22 | 5.91 | 13.36 | 165.50 |
| 11/10/2005 11:23 | 5.88 | 13.35 | 176.50 |
| 11/10/2005 11:24 | 5.92 | 13.34 | 159.50 |
| 11/10/2005 11:25 | 5.89 | 13.37 | 163.50 |
| 11/10/2005 11:26 | 5.97 | 13.31 | 176.00 |
| 11/10/2005 11:27 | 5.91 | 13.35 | 172.00 |
| 11/10/2005 11:28 | 5.98 | 13.31 | 174.50 |
| 11/10/2005 11:29 | 6.04 | 13.26 | 129.00 |
| 11/10/2005 11:30 | 6.13 | 13.18 | 123.00 |
| 11/10/2005 11:31 | 6.08 | 13.22 | 116.50 |
| 11/10/2005 11:32 | 6.08 | 13.22 | 117.50 |
| 11/10/2005 11:33 | 6.16 | 13.16 | 117.00 |
| 11/10/2005 11:34 | 6.10 | 13.16 | 126.00 |
| 11/10/2005 11:35 | 6.02 | 13.20 | 163.00 |
| 11/10/2005 11:36 | 5.98 | 13.30 | 165.50 |
| 11/10/2005 11:37 | 5.88 | 13.34 | 172.50 |
| 11/10/2005 11:38 | 5.84 | 13.38 | 184.50 |
| 11/10/2005 11:39 | 5.86 | 13.36 | 182.50 |
| 11/10/2005 11:40 | 5.83 | 13.40 | 173.00 |
| 11/10/2005 11:41 | 5.81 | 13.41 | 178.00 |
| 11/10/2005 11:42 | 5.96 | 13.33 | 165.50 |

AVERAGES 5.96 13.30 157.30

| | |
|-------------|------|
| FUEL FACTOR | 1800 |
|-------------|------|

| CORRECTED RESULTS | |
|-------------------|--------|
| O2 % | 5.96 |
| CO2 % | 13.30 |
| CO PPM | 156.64 |
| CO LB/MMBTU | 0.154 |

ST. JOHNS RIVER POWER PARK
UNIT NO. 1 OUTLET STACK (CO)

11/10/05

ANALYZER RESPONSE

| SPAN SETTING | GAS UNITS | TANK VALUE | ANALYZER VALUE | DIFF PPM | % SPAN | ANALYZER SERIAL # |
|--------------|-----------|------------|----------------|----------|--------|-------------------|
| 25 | O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 1420/B153 |
| | O2 % | 12.00 | 12.0 | 0.0 | 0.0 | |
| | O2 % | 22.50 | 22.5 | 0.0 | 0.0 | |
| 20 | CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 01410B139 |
| | CO2 % | 11.00 | 11.0 | 0.0 | 0.0 | |
| | CO2 % | 17.30 | 17.3 | 0.0 | 0.0 | |
| 2000 | CO ppm | 0.00 | 0.0 | 0.0 | 0.0 | 48C-71754-369 |
| | CO ppm | 1078.00 | 1076.0 | -2.0 | -0.1 | |
| | CO ppm | 1685.00 | 1680.0 | -5.0 | -0.3 | |

RUN 4 --- SYSTEM BIAS AND SYSTEM DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRETEST CHECK | % SPAN | POSTTEST CHECK | % SPAN | % DRIFT |
|-----------|----------------|---------------|--------|----------------|--------|---------|
| O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| O2 % | 12.00 | 12.0 | 0.0 | 12.0 | 0.0 | 0.0 |
| CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 11.00 | 11.0 | 0.0 | 11.0 | 0.0 | 0.0 |
| CO ppm | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO ppm | 1076.00 | 1082.0 | 0.3 | 1080.0 | 0.2 | -0.1 |

RUN 4 --- UNCORRECTED ANALYZER DATA

| DATE & TIME | O2 % | CO2 % | CO PPM |
|------------------|------|-------|--------|
| 11/10/2005 11:53 | 5.83 | 13.38 | 161.50 |
| 11/10/2005 11:54 | 5.87 | 13.36 | 172.00 |
| 11/10/2005 11:55 | 5.88 | 13.35 | 172.00 |
| 11/10/2005 11:56 | 5.92 | 13.33 | 156.50 |
| 11/10/2005 11:57 | 5.96 | 13.31 | 164.00 |
| 11/10/2005 11:58 | 6.02 | 13.24 | 145.00 |
| 11/10/2005 11:59 | 6.03 | 13.24 | 131.50 |
| 11/10/2005 12:00 | 6.13 | 13.14 | 98.50 |
| 11/10/2005 12:01 | 6.14 | 13.12 | 92.00 |
| 11/10/2005 12:02 | 6.14 | 13.10 | 81.50 |
| 11/10/2005 12:03 | 6.04 | 13.16 | 93.00 |
| 11/10/2005 12:04 | 6.06 | 13.18 | 98.00 |
| 11/10/2005 12:05 | 6.06 | 13.19 | 89.00 |
| 11/10/2005 12:06 | 6.07 | 13.13 | 99.00 |
| 11/10/2005 12:07 | 5.97 | 13.21 | 124.00 |
| 11/10/2005 12:08 | 5.89 | 13.32 | 144.00 |
| 11/10/2005 12:09 | 6.01 | 13.22 | 136.50 |
| 11/10/2005 12:10 | 5.87 | 13.30 | 136.00 |
| 11/10/2005 12:11 | 5.97 | 13.29 | 150.00 |
| 11/10/2005 12:12 | 6.03 | 13.19 | 116.00 |
| 11/10/2005 12:13 | 5.91 | 13.27 | 132.00 |
| 11/10/2005 12:14 | 5.91 | 13.32 | 135.50 |

AVERAGES 5.99 13.24 128.52

| | |
|-------------|------|
| FUEL FACTOR | 1800 |
|-------------|------|

| CORRECTED RESULTS | |
|-------------------|--------|
| O2 % | 5.99 |
| CO2 % | 13.24 |
| CO PPM | 128.17 |
| CO LB/MMBTU | 0.127 |

ST. JOHNS RIVER POWER PARK
UNIT NO. 1 OUTLET STACK (CO)

11/10/05

ANALYZER RESPONSE

| SPAN SETTING | GAS UNITS | TANK VALUE | ANALYZER VALUE | DIFF PPM | % SPAN | ANALYZER SERIAL # |
|--------------|-----------|------------|----------------|----------|--------|-------------------|
| 25 | O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 1420/B153 |
| | O2 % | 12.00 | 12.0 | 0.0 | 0.0 | |
| | O2 % | 22.50 | 22.5 | 0.0 | 0.0 | |
| 20 | CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 01410B139 |
| | CO2 % | 11.00 | 11.0 | 0.0 | 0.0 | |
| | CO2 % | 17.30 | 17.3 | 0.0 | 0.0 | |
| 2000 | CO ppm | 0.00 | 0.0 | 0.0 | 0.0 | 48C-71754-369 |
| | CO ppm | 1078.00 | 1076.0 | -2.0 | -0.1 | |
| | CO ppm | 1685.00 | 1680.0 | -5.0 | -0.3 | |

RUN 5 --- SYSTEM BIAS AND SYSTEM DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRETEST CHECK | % SPAN | POSTTEST CHECK | % SPAN | % DRIFT |
|-----------|----------------|---------------|--------|----------------|--------|---------|
| O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| O2 % | 12.00 | 12.0 | 0.0 | 12.0 | 0.0 | 0.0 |
| CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 11.00 | 11.0 | 0.0 | 11.0 | 0.0 | 0.0 |
| CO ppm | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO ppm | 1076.00 | 1080.0 | 0.2 | 1081.0 | 0.3 | 0.1 |

RUN 5 --- UNCORRECTED ANALYZER DATA

| DATE & TIME | O2 % | CO2 % | CO PPM |
|------------------|------|-------|--------|
| 11/10/2005 12:24 | 5.91 | 13.27 | 140.50 |
| 11/10/2005 12:25 | 5.87 | 13.33 | 160.00 |
| 11/10/2005 12:26 | 5.86 | 13.35 | 177.50 |
| 11/10/2005 12:27 | 5.84 | 13.37 | 178.00 |
| 11/10/2005 12:28 | 5.83 | 13.39 | 172.50 |
| 11/10/2005 12:29 | 5.86 | 13.35 | 176.00 |
| 11/10/2005 12:30 | 5.91 | 13.30 | 176.00 |
| 11/10/2005 12:31 | 5.94 | 13.29 | 177.50 |
| 11/10/2005 12:32 | 6.01 | 13.21 | 141.50 |
| 11/10/2005 12:33 | 6.13 | 13.10 | 104.50 |
| 11/10/2005 12:34 | 6.14 | 13.10 | 82.50 |
| 11/10/2005 12:35 | 6.23 | 13.03 | 68.50 |
| 11/10/2005 12:36 | 6.21 | 13.03 | 62.50 |
| 11/10/2005 12:37 | 6.13 | 13.08 | 71.00 |
| 11/10/2005 12:38 | 6.09 | 13.09 | 84.50 |
| 11/10/2005 12:39 | 5.99 | 13.17 | 125.50 |
| 11/10/2005 12:40 | 5.89 | 13.23 | 137.00 |
| 11/10/2005 12:41 | 5.83 | 13.34 | 123.00 |
| 11/10/2005 12:42 | 5.80 | 13.34 | 156.50 |
| 11/10/2005 12:43 | 5.84 | 13.35 | 164.00 |
| 11/10/2005 12:44 | 5.89 | 13.31 | 173.00 |
| 11/10/2005 12:45 | 6.02 | 13.23 | 132.50 |

AVERAGES 5.96 13.24 135.66

| | |
|-------------|------|
| FUEL FACTOR | 1800 |
|-------------|------|

| CORRECTED RESULTS | |
|-------------------|--------|
| O2 % | 5.96 |
| CO2 % | 13.24 |
| CO PPM | 135.35 |
| CO LB/MMBTU | 0.134 |

ST. JOHNS RIVER POWER PARK
UNIT NO. 1 OUTLET STACK (CO)

11/10/05

ANALYZER RESPONSE

| SPAN SETTING | GAS UNITS | TANK VALUE | ANALYZER VALUE | DIFF PPM | % SPAN | ANALYZER SERIAL # |
|--------------|-----------|------------|----------------|----------|--------|-------------------|
| 25 | O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 1420/B153 |
| | O2 % | 12.00 | 12.0 | 0.0 | 0.0 | |
| | O2 % | 22.50 | 22.5 | 0.0 | 0.0 | |
| 20 | CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 01410B139 |
| | CO2 % | 11.00 | 11.0 | 0.0 | 0.0 | |
| | CO2 % | 17.30 | 17.3 | 0.0 | 0.0 | |
| 2000 | CO ppm | 0.00 | 0.0 | 0.0 | 0.0 | 48C-71754-369 |
| | CO ppm | 1078.00 | 1076.0 | -2.0 | -0.1 | |
| | CO ppm | 1685.00 | 1680.0 | -5.0 | -0.3 | |

RUN 6 -- SYSTEM BIAS AND SYSTEM DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRETEST CHECK | % SPAN | POSTTEST CHECK | % SPAN | % DRIFT |
|-----------|----------------|---------------|--------|----------------|--------|---------|
| O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| O2 % | 12.00 | 12.0 | 0.0 | 12.0 | 0.0 | 0.0 |
| CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 11.00 | 11.0 | 0.0 | 11.0 | 0.0 | 0.0 |
| CO ppm | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO ppm | 1076.00 | 1081.0 | 0.3 | 1079.0 | 0.2 | -0.1 |

RUN 6 -- UNCORRECTED ANALYZER DATA

| DATE & TIME | O2 % | CO2 % | CO PPM |
|------------------|------|-------|--------|
| 11/10/2005 13:04 | 6.11 | 13.17 | 72.50 |
| 11/10/2005 13:05 | 6.13 | 13.10 | 74.50 |
| 11/10/2005 13:06 | 6.11 | 13.11 | 72.00 |
| 11/10/2005 13:07 | 6.21 | 13.09 | 84.00 |
| 11/10/2005 13:08 | 6.11 | 13.10 | 72.00 |
| 11/10/2005 13:09 | 6.18 | 13.09 | 73.50 |
| 11/10/2005 13:10 | 6.09 | 13.14 | 94.50 |
| 11/10/2005 13:11 | 6.04 | 13.16 | 94.00 |
| 11/10/2005 13:12 | 5.97 | 13.25 | 119.50 |
| 11/10/2005 13:13 | 6.05 | 13.19 | 113.50 |
| 11/10/2005 13:14 | 6.01 | 13.21 | 117.00 |
| 11/10/2005 13:15 | 6.00 | 13.21 | 127.00 |
| 11/10/2005 13:16 | 6.02 | 13.23 | 131.00 |
| 11/10/2005 13:17 | 6.08 | 13.16 | 92.00 |
| 11/10/2005 13:18 | 6.04 | 13.15 | 88.00 |
| 11/10/2005 13:19 | 6.13 | 13.13 | 83.50 |
| 11/10/2005 13:20 | 6.03 | 13.14 | 88.00 |
| 11/10/2005 13:21 | 6.04 | 13.15 | 85.50 |
| 11/10/2005 13:22 | 6.09 | 13.16 | 84.50 |
| 11/10/2005 13:23 | 6.09 | 13.17 | 83.00 |
| 11/10/2005 13:24 | 6.08 | 13.15 | 83.50 |
| 11/10/2005 13:25 | 6.14 | 13.14 | 84.25 |

AVERAGES 6.08 13.15 91.69

| | |
|-------------|------|
| FUEL FACTOR | 1800 |
|-------------|------|

| CORRECTED RESULTS | |
|-------------------|-------|
| O2 % | 6.08 |
| CO2 % | 13.15 |
| CO PPM | 91.52 |
| CO LB/MMBTU | 0.091 |

ST. JOHNS RIVER POWER PARK
UNIT NO. 1 OUTLET STACK (CO)

11/10/05

ANALYZER RESPONSE

| SPAN SETTING | GAS UNITS | TANK VALUE | ANALYZER VALUE | DIFF PPM | % SPAN | ANALYZER SERIAL # |
|--------------|-----------|------------|----------------|----------|--------|-------------------|
| 25 | O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 1420/B153 |
| | O2 % | 12.00 | 12.0 | 0.0 | 0.0 | |
| | O2 % | 22.50 | 22.5 | 0.0 | 0.0 | |
| 20 | CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 01410B139 |
| | CO2 % | 11.00 | 11.0 | 0.0 | 0.0 | |
| | CO2 % | 17.30 | 17.3 | 0.0 | 0.0 | |
| 2000 | CO ppm | 0.00 | 0.0 | 0.0 | 0.0 | 48C-71754-369 |
| | CO ppm | 1078.00 | 1076.0 | -2.0 | -0.1 | |
| | CO ppm | 1685.00 | 1680.0 | -5.0 | -0.3 | |

RUN 7 --- SYSTEM BIAS AND SYSTEM DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRETEST CHECK | % SPAN | POSTTEST CHECK | % SPAN | % DRIFT |
|-----------|----------------|---------------|--------|----------------|--------|---------|
| O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| O2 % | 12.00 | 12.0 | 0.0 | 12.0 | 0.0 | 0.0 |
| CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 11.00 | 11.0 | 0.0 | 11.0 | 0.0 | 0.0 |
| CO ppm | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO ppm | 1076.00 | 1079.0 | 0.2 | 1080.0 | 0.2 | 0.1 |

RUN 7 --- UNCORRECTED ANALYZER DATA

| DATE & TIME | O2 % | CO2 % | CO PPM |
|------------------|------|-------|--------|
| 11/10/2005 13:33 | 6.14 | 13.18 | 86.00 |
| 11/10/2005 13:34 | 6.11 | 13.20 | 93.00 |
| 11/10/2005 13:35 | 6.16 | 13.16 | 88.50 |
| 11/10/2005 13:36 | 6.09 | 13.20 | 94.50 |
| 11/10/2005 13:37 | 6.16 | 13.17 | 82.50 |
| 11/10/2005 13:38 | 6.15 | 13.16 | 71.50 |
| 11/10/2005 13:39 | 6.16 | 13.15 | 71.50 |
| 11/10/2005 13:40 | 6.09 | 13.20 | 86.50 |
| 11/10/2005 13:41 | 6.15 | 13.20 | 80.00 |
| 11/10/2005 13:42 | 6.35 | 13.04 | 53.00 |
| 11/10/2005 13:43 | 6.35 | 13.01 | 41.00 |
| 11/10/2005 13:44 | 6.33 | 13.02 | 56.00 |
| 11/10/2005 13:45 | 6.29 | 13.05 | 65.00 |
| 11/10/2005 13:46 | 6.14 | 13.13 | 84.50 |
| 11/10/2005 13:47 | 6.15 | 13.16 | 95.00 |
| 11/10/2005 13:48 | 6.13 | 13.20 | 90.00 |
| 11/10/2005 13:49 | 6.04 | 13.21 | 87.00 |
| 11/10/2005 13:50 | 6.03 | 13.28 | 91.50 |
| 11/10/2005 13:51 | 5.94 | 13.35 | 107.50 |
| 11/10/2005 13:52 | 6.03 | 13.29 | 107.00 |
| 11/10/2005 13:53 | 5.98 | 13.34 | 101.00 |
| 11/10/2005 13:54 | 6.04 | 13.26 | 103.50 |

AVERAGES 6.14 13.18 83.45

| | |
|-------------|------|
| FUEL FACTOR | 1800 |
|-------------|------|

| CORRECTED RESULTS | |
|-------------------|-------|
| O2 % | 6.14 |
| CO2 % | 13.18 |
| CO PPM | 83.34 |
| CO LB/MMBTU | 0.083 |

ST. JOHNS RIVER POWER PARK
UNIT NO. 1 OUTLET STACK (CO)

11/10/05

ANALYZER RESPONSE

| SPAN SETTING | GAS UNITS | TANK VALUE | ANALYZER VALUE | DIFF PPM | % SPAN | ANALYZER SERIAL # |
|--------------|-----------|------------|----------------|----------|--------|-------------------|
| 25 | O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 1420/B153 |
| | O2 % | 12.00 | 12.0 | 0.0 | 0.0 | |
| | O2 % | 22.50 | 22.5 | 0.0 | 0.0 | |
| 20 | CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 01410B139 |
| | CO2 % | 11.00 | 11.0 | 0.0 | 0.0 | |
| | CO2 % | 17.30 | 17.3 | 0.0 | 0.0 | |
| 2000 | CO ppm | 0.00 | 0.0 | 0.0 | 0.0 | 48C-71754-369 |
| | CO ppm | 1078.00 | 1076.0 | -2.0 | -0.1 | |
| | CO ppm | 1685.00 | 1680.0 | -5.0 | -0.3 | |

RUN 8 --- SYSTEM BIAS AND SYSTEM DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRETEST CHECK | % SPAN | POSTTEST CHECK | % SPAN | % DRIFT |
|-----------|----------------|---------------|--------|----------------|--------|---------|
| O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| O2 % | 12.00 | 12.0 | 0.0 | 12.0 | 0.0 | 0.0 |
| CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 11.00 | 11.0 | 0.0 | 11.0 | 0.0 | 0.0 |
| CO ppm | 0.00 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| CO ppm | 1076.00 | 1080.0 | 0.2 | 1082.0 | 0.3 | 0.1 |

RUN 8 --- UNCORRECTED ANALYZER DATA

| DATE & TIME | O2 % | CO2 % | CO PPM |
|------------------|------|-------|--------|
| 11/10/2005 14:03 | 6.11 | 13.19 | 92.50 |
| 11/10/2005 14:04 | 6.08 | 13.19 | 88.50 |
| 11/10/2005 14:05 | 5.96 | 13.22 | 102.00 |
| 11/10/2005 14:06 | 5.93 | 13.36 | 104.50 |
| 11/10/2005 14:07 | 6.01 | 13.30 | 117.00 |
| 11/10/2005 14:08 | 6.01 | 13.29 | 103.50 |
| 11/10/2005 14:09 | 6.05 | 13.25 | 115.50 |
| 11/10/2005 14:10 | 6.16 | 13.17 | 88.50 |
| 11/10/2005 14:11 | 6.09 | 13.20 | 99.00 |
| 11/10/2005 14:12 | 6.12 | 13.18 | 115.00 |
| 11/10/2005 14:13 | 6.23 | 13.12 | 92.00 |
| 11/10/2005 14:14 | 6.14 | 13.10 | 80.50 |
| 11/10/2005 14:15 | 6.24 | 13.11 | 87.00 |
| 11/10/2005 14:16 | 6.19 | 13.11 | 71.00 |
| 11/10/2005 14:17 | 6.12 | 13.16 | 84.50 |
| 11/10/2005 14:18 | 6.10 | 13.20 | 110.00 |
| 11/10/2005 14:19 | 6.06 | 13.22 | 115.50 |
| 11/10/2005 14:20 | 6.04 | 13.26 | 113.50 |
| 11/10/2005 14:21 | 5.99 | 13.25 | 110.50 |
| 11/10/2005 14:22 | 5.96 | 13.32 | 113.50 |
| 11/10/2005 14:23 | 5.97 | 13.35 | 119.50 |
| 11/10/2005 14:24 | 6.08 | 13.23 | 112.50 |

AVERAGES 6.07 13.22 101.64

| | |
|-------------|------|
| FUEL FACTOR | 1800 |
|-------------|------|

| CORRECTED RESULTS | |
|-------------------|--------|
| O2 % | 6.07 |
| CO2 % | 13.22 |
| CO PPM | 101.26 |
| CO LB/MMBTU | 0.100 |

ST. JOHNS RIVER POWER PARK
UNIT NO. 1 OUTLET STACK (CO)

11/10/05

ANALYZER RESPONSE

| SPAN SETTING | GAS UNITS | TANK VALUE | ANALYZER VALUE | DIFF PPM | % SPAN | ANALYZER SERIAL # |
|--------------|-----------|------------|----------------|----------|--------|-------------------|
| 25 | O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 1420/B153 |
| | O2 % | 12.00 | 12.0 | 0.0 | 0.0 | |
| | O2 % | 22.50 | 22.5 | 0.0 | 0.0 | |
| 20 | CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 01410B139 |
| | CO2 % | 11.00 | 11.0 | 0.0 | 0.0 | |
| | CO2 % | 17.30 | 17.3 | 0.0 | 0.0 | |
| 2000 | CO ppm | 0.00 | 0.0 | 0.0 | 0.0 | 48C-71754-369 |
| | CO ppm | 1078.00 | 1076.0 | -2.0 | -0.1 | |
| | CO ppm | 1685.00 | 1680.0 | -5.0 | -0.3 | |

RUN 9 --- SYSTEM BIAS AND SYSTEM DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRETEST CHECK | % SPAN | POSTEST CHECK | % SPAN | % DRIFT |
|-----------|----------------|---------------|--------|---------------|--------|---------|
| O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| O2 % | 12.00 | 12.0 | 0.0 | 12.0 | 0.0 | 0.0 |
| CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 11.00 | 11.0 | 0.0 | 11.0 | 0.0 | 0.0 |
| CO ppm | 0.00 | 0.2 | 0.0 | 0.3 | 0.0 | 0.0 |
| CO ppm | 1076.00 | 1082.0 | 0.3 | 1083.0 | 0.4 | 0.1 |

RUN 9 --- UNCORRECTED ANALYZER DATA

| DATE & TIME | O2 % | CO2 % | CO PPM |
|------------------|------|-------|--------|
| 11/10/2005 14:37 | 6.13 | 13.16 | 95.00 |
| 11/10/2005 14:38 | 6.09 | 13.19 | 100.00 |
| 11/10/2005 14:39 | 6.05 | 13.23 | 102.00 |
| 11/10/2005 14:40 | 6.09 | 13.22 | 104.00 |
| 11/10/2005 14:41 | 6.09 | 13.20 | 95.00 |
| 11/10/2005 14:42 | 6.11 | 13.20 | 95.00 |
| 11/10/2005 14:43 | 6.15 | 13.18 | 83.50 |
| 11/10/2005 14:44 | 6.24 | 13.10 | 70.00 |
| 11/10/2005 14:45 | 6.24 | 13.08 | 67.50 |
| 11/10/2005 14:46 | 6.24 | 13.07 | 64.00 |
| 11/10/2005 14:47 | 6.24 | 13.08 | 69.00 |
| 11/10/2005 14:48 | 6.18 | 13.09 | 69.50 |
| 11/10/2005 14:49 | 6.24 | 13.11 | 70.00 |
| 11/10/2005 14:50 | 6.21 | 13.09 | 56.50 |
| 11/10/2005 14:51 | 6.14 | 13.14 | 82.50 |
| 11/10/2005 14:52 | 6.12 | 13.17 | 78.50 |
| 11/10/2005 14:53 | 6.08 | 13.19 | 96.00 |
| 11/10/2005 14:54 | 6.09 | 13.21 | 98.00 |
| 11/10/2005 14:55 | 6.03 | 13.25 | 107.00 |
| 11/10/2005 14:56 | 6.01 | 13.27 | 116.00 |
| 11/10/2005 14:57 | 6.01 | 13.26 | 117.50 |
| 11/10/2005 14:58 | 6.04 | 13.26 | 112.50 |

AVERAGES 6.13 13.17 88.59

| | |
|-------------|------|
| FUEL FACTOR | 1800 |
|-------------|------|

| CORRECTED RESULTS | |
|-------------------|-------|
| O2 % | 6.13 |
| CO2 % | 13.17 |
| CO PPM | 87.99 |
| CO LB/MMBTU | 0.087 |

UNIT 2

COASTAL AIR CONSULTING, INC.

CO PPM RELATIVE ACCURACY

CLIENT: St. Johns River Power Park TECO
 SITE: SJRPP MODEL # 48
 UNIT: 2
 LOAD: Normal
 DATE: 11/09/05

| RUN | TIME START | TIME END | REFERENCE METHOD* (PPM) | CEM RESPONSE (PPM) | ARITHMATIC DIFFERENCE | DIFFERENCE SQUARED |
|-----|---------------|-------------|-------------------------------|--------------------------|--------------------------|-----------------------|
| 1 | 08:55 | 09:16 | 419.922 | 463.600 | -43.678 | 1907.75037868 |
| 2 | 09:28 | 09:49 | 438.719 | 465.800 | -27.081 | 733.36130149 |
| 3 | 10:00 | 10:21 | 426.282 | 464.000 | -37.718 | 1422.63816675 |
| 4 | 10:41 | 11:02 | 417.734 | 447.200 | -29.466 | 868.27337622 |
| 5 | 11:13 | 11:34 | 363.890 | 396.800 | -32.910 | 1083.03741729 |
| 6 | 11:45 | 12:06 | 406.132 | 433.600 | -27.468 | 754.50585435 |
| 7 | 12:19 | 12:40 | 378.332 | 399.900 | -21.568 | 465.18698124 |
| 8 | 12:51 | 13:12 | 318.864 | 352.700 | -33.836 | 1144.84887910 |
| 9 | 13:25 | 13:46 | 272.129 | 297.600 | -25.471 | 648.74944988 |
| | | | AVERAGE | AVERAGE | SUM OF DIFF. | SUM OF THE SQUARES |
| | | | 382.445 | 413.467 | -279.195 | 9028.3518050 |

**MEAN DIFFERENCE, d (Eq. A-7) -31.022

**STANDARD DEVIATION, S_d (Eq. A-8) 6.78

**CONFIDENCE COEFFICIENT, $|CC|$ (Eq. A-9) 5.208

**PERCENT (%) RELATIVE ACCURACY, RA (Eq. A-10) 9.473

COASTAL AIR CONSULTING, INC.

CO LB/MMBTU RELATIVE ACCURACY

CLIENT: St. Johns River Power Park TECO
 SITE: SJRPP MODEL # 48
 UNIT: 2
 LOAD: Normal
 DATE: 11/09/05

| RUN | TIME START | TIME END | REFERENCE METHOD* (LB/mmBtu) | CEM RESPONSE (LB/mmBtu) | ARITHMETIC DIFFERENCE | DIFFERENCE SQUARED |
|----------------|---------------|-------------|------------------------------------|-------------------------------|--------------------------|-------------------------------|
| 1 | 08:55 | 09:16 | 0.470 | 0.505 | -0.035 | 0.00122500 |
| 2 | 09:28 | 09:49 | 0.486 | 0.508 | -0.022 | 0.00048400 |
| 3 | 10:00 | 10:21 | 0.479 | 0.508 | -0.029 | 0.00084100 |
| 4 | 10:41 | 11:02 | 0.467 | 0.487 | -0.020 | 0.00040000 |
| 5 | 11:13 | 11:34 | 0.408 | 0.432 | -0.024 | 0.00057600 |
| 6 | 11:45 | 12:06 | 0.454 | 0.473 | -0.019 | 0.00036100 |
| 7 | 12:19 | 12:40 | 0.427 | 0.436 | -0.009 | 0.00008100 |
| 8 | 12:51 | 13:12 | 0.360 | 0.385 | -0.025 | 0.00062500 |
| 9 | 13:25 | 13:46 | 0.302 | 0.326 | -0.024 | 0.00057600 |
| AVERAGE | | | | AVERAGE | SUM OF DIFF. | SUM OF THE SQUARES |
| 0.428 | | | | 0.451 | -0.207 | 0.0051690 |

**MEAN DIFFERENCE, d (Eq. A-7) -0.023
 **STANDARD DEVIATION, S_d (Eq. A-8) 0.01
 **CONFIDENCE COEFFICIENT, $|CC|$ (Eq. A-9) 0.005

**PERCENT (%) RELATIVE ACCURACY, RA (Eq. A-10) 6.655

COASTAL AIR CONSULTING, INC.

CO2 % RELATIVE ACCURACY

CLIENT: St. Johns River Power Park
 SITE: SJRPP
 UNIT: 2
 LOAD: Normal
 DATE: 11/09/05

TECO
 MODEL # 41H
 SERIAL # 41H-49357-282

| RUN | TIME START | TIME END | REFERENCE METHOD* (% CO2) | CEM RESPONSE (% CO2) | ARITHMATIC DIFFERENCE | DIFFERENCE SQUARED | |
|-----|---------------|-------------|---------------------------------|----------------------------|--------------------------|-----------------------|-----------------------|
| 1 | 08:55 | 09:16 | 11.70 | 12.01 | -0.307 | 0.094 | |
| 2 | 09:28 | 09:49 | 11.81 | 12.00 | -0.187 | 0.035 | |
| 3 | 10:00 | 10:21 | 11.66 | 11.95 | -0.295 | 0.087 | |
| 4 | 10:41 | 11:02 | 11.71 | 12.01 | -0.301 | 0.090 | |
| 5 | 11:13 | 11:34 | 11.69 | 12.03 | -0.342 | 0.117 | |
| 6 | 11:45 | 12:06 | 11.71 | 12.00 | -0.290 | 0.084 | |
| 7 | 12:19 | 12:40 | 11.61 | 12.00 | -0.392 | 0.154 | |
| 8 | 12:51 | 13:12 | 11.60 | 11.98 | -0.384 | 0.147 | |
| 9 | 13:25 | 13:46 | 11.80 | 11.95 | -0.146 | 0.021 | |
| | | | | AVERAGE | AVERAGE | SUM OF DIFF. | SUM OF THE SQUARES |
| | | | | 11.70 | 11.99 | -2.644 | 0.830 |

**MEAN DIFFERENCE, d (Eq. A-7) -0.294

**STANDARD DEVIATION, Sd (Eq. A-8) 0.082

**CONFIDENCE COEFFICIENT, |CC| (Eq. A-9) 0.063

**PERCENT (%) RELATIVE ACCURACY, RA (Eq. A-10) 3.048

REFERENCE METHOD VALUES
MOISTURE CORRECTION
SJRPP 2
CO

| RUN # | REFERENCE METHOD (ppm/%, dry) | MOISTURE (%) | MOISTURE CORRECTION (1-moisture/100) | REFERENCE METHOD (ppm/%, wet) |
|---------------|----------------------------------|--------------|---|----------------------------------|
| CO ppm | | | | |
| 1 | 485.13 | 13.44 | 0.866 | 419.92 |
| 2 | 503.25 | 12.82 | 0.872 | 438.72 |
| 3 | 495.21 | 13.92 | 0.861 | 426.28 |
| 4 | 483.75 | 13.65 | 0.864 | 417.73 |
| 5 | 422.49 | 13.87 | 0.861 | 363.89 |
| 6 | 470.29 | 13.64 | 0.864 | 406.13 |
| 7 | 440.66 | 14.14 | 0.859 | 378.33 |
| 8 | 369.56 | 13.72 | 0.863 | 318.86 |
| 9 | 309.62 | 12.11 | 0.879 | 272.13 |
| CO2 % | | | | |
| 1 | 13.52 | 13.44 | 0.866 | 11.70 |
| 2 | 13.55 | 12.82 | 0.872 | 11.81 |
| 3 | 13.54 | 13.92 | 0.861 | 11.66 |
| 4 | 13.56 | 13.65 | 0.864 | 11.71 |
| 5 | 13.57 | 13.87 | 0.861 | 11.69 |
| 6 | 13.56 | 13.64 | 0.864 | 11.71 |
| 7 | 13.52 | 14.14 | 0.859 | 11.61 |
| 8 | 13.44 | 13.72 | 0.863 | 11.60 |
| 9 | 13.43 | 12.11 | 0.879 | 11.80 |

UNIT 1 CO RATA TEST DATA SHEET

Client: St. Johns River Power Park

Site: SJRPP 2

Bar. Pressure (in.Hg):

29.81

Load: Normal

Method: 1 - 2

Run Number: 1-3

Date:

11/09/05

Operators: RRR/JTS

MOISTURE TEST FIELD DATA SHEET

Meter Box#: CAC 1

Method: 4

Run Number: 1

Ini. Leak Rate:0.000 @10"

Impinger Set: D

Fin. Leak Rate:0.000 @10"

Yi 0.972

Sample Head: B

| POINT | CLOCK TIME | SAMPLE TIME | VOLUME | ORIFICE ^H | METER | | VAC. (IN.HG) | IMPINGER TEMP |
|-------|------------|-------------|---------|------------|----------|------|--------------|---------------|
| | | | 84.288 | | TEMP (F) | 96 | | |
| 1 | 08:55 | 10 | 92.5 | 1.80 | 96 | 96 | 3.0 | 56 |
| 2 | | 20 | 100.5 | 1.80 | 98 | 98 | 3.0 | 44 |
| 3 | 09:25 | 30 | 108.306 | 1.80 | 99 | 99 | 3.0 | 46 |
| | | | 24.018 | 1.800 | 97.7 | 97.7 | | |
| | | | | | | 97.7 | | |

H2O COLLECTED (g) =

72.5

VOL WATER COLLECTED (SCF) =

3.42

GAS SAMPLED (DSCF) =

22.013

MOISTURE IN STACK GAS (% VOL) =

13.44

MOISTURE TEST FIELD DATA SHEET

Meter Box #: CAC 1

Method: 4

Run Number: 2

Ini. Leak Rate:0.000 @10"

Impinger Set: D

Fin. Leak Rate:0.000 @10"

Yi 0.972

Sample Head: B

| POINT | CLOCK TIME | SAMPLE TIME | VOLUME | ORIFICE ^H | METER | | VAC. (IN.HG) | IMPINGER TEMP |
|-------|------------|-------------|---------|------------|----------|-------|--------------|---------------|
| | | | 108.414 | | TEMP (F) | 100 | | |
| 1 | 09:28 | 10 | 115.5 | 1.80 | 100 | 100 | 3.0 | 55 |
| 2 | | 20 | 123.9 | 1.80 | 101 | 101 | 3.0 | 55 |
| 3 | 09:58 | 30 | 131.811 | 1.80 | 102 | 102 | 3.0 | 56 |
| | | | 23.397 | 1.800 | 101.0 | 101.0 | | |
| | | | | | | 101.0 | | |

H2O COLLECTED (g) =

66.5

VOL WATER COLLECTED (SCF) =

3.14

GAS SAMPLED (DSCF) =

21.317

MOISTURE IN STACK GAS (% VOL) =

12.82

MOISTURE TEST FIELD DATA SHEET

Meter Box #: CAC 1

Method: 4

Run Number: 3

Ini. Leak Rate:0.000 @10"

Impinger Set: D

Fin. Leak Rate:0.000 @10"

Yi 0.972

Sample Head: B

| POINT | CLOCK TIME | SAMPLE TIME | VOLUME | ORIFICE ^H | METER | | VAC. (IN.HG) | IMPINGER TEMP |
|-------|------------|-------------|---------|------------|----------|-------|--------------|---------------|
| | | | 132.140 | | TEMP (F) | 103 | | |
| 1 | 10:00 | 10 | 140.1 | 1.80 | 103 | 103 | 3.0 | 58 |
| 2 | | 20 | 148.3 | 1.80 | 105 | 105 | 3.0 | 59 |
| 3 | 10:30 | 30 | 155.910 | 1.80 | 108 | 108 | 3.0 | 60 |
| | | | 23.770 | 1.800 | 105.3 | 105.3 | | |
| | | | | | | 105.3 | | |

H2O COLLECTED (g) =

73.7

VOL WATER COLLECTED (SCF) =

3.47

GAS SAMPLED (DSCF) =

21.491

MOISTURE IN STACK GAS (% VOL) =

13.92

UNIT 1 CO RATA TEST DATA SHEET

Client: St. Johns River Power Park
 Site: SJRPP 2
 Method: 1 - 2
 Run Number: 4 - 6
 Date: 11/09/05

Bar. Pressure (in.Hg):

29.81

Load: Normal

Operators: RRR/JTS

MOISTURE TEST FIELD DATA SHEET

Meter Box #: CAC 1

Method: 4

Run Number: 4

Ini. Leak Rate:0.000 @10"

Impinger Set: D

Fin. Leak Rate:0.000 @10"

Yi 0.972

Sample Head: B

| POINT | CLOCK TIME | SAMPLE TIME | VOLUME | ORIFICE ^H | METER | | VAC. (IN.HG) | IMPINGER TEMP |
|-------|------------|-------------|---------|---------------|----------|-------|-----------------|------------------|
| | | | 155.909 | | TEMP (F) | | | |
| 1 | 10:41 | 10 | 163.9 | 1.80 | 109 | 109 | 3.0 | 55 |
| 2 | | 20 | 171.6 | 1.80 | 110 | 110 | 3.0 | 58 |
| 3 | 10:53 | 30 | 179.532 | 1.80 | 111 | 111 | 3.0 | 60 |
| | | | 23.623 | 1.800 | 110.0 | 110.0 | | |
| | | | | | | 110.0 | | |

H2O COLLECTED (g) =

71.0

VOL WATER COLLECTED (SCF) =

3.35

GAS SAMPLED (DSCF) =

21.183

MOISTURE IN STACK GAS (% VOL) =

13.65

MOISTURE TEST FIELD DATA SHEET

Meter Box #: CAC 1

Method: 4

Run Number: 5

Ini. Leak Rate:0.000 @8"

Impinger Set: D

Fin. Leak Rate:0.000 @8"

Yi 0.972

Sample Head: B

| POINT | CLOCK TIME | SAMPLE TIME | VOLUME | ORIFICE ^H | METER | | VAC. (IN.HG) | IMPINGER TEMP |
|-------|------------|-------------|---------|---------------|----------|-------|-----------------|------------------|
| | | | 179.610 | | TEMP (F) | | | |
| 1 | 11:13 | 10 | 187.3 | 1.80 | 111 | 111 | 3.0 | 54 |
| 2 | | 20 | 194.5 | 1.80 | 111 | 111 | 3.0 | 58 |
| 3 | 11:43 | 30 | 203.057 | 1.80 | 113 | 113 | 3.0 | 60 |
| | | | 23.447 | 1.800 | 111.7 | 111.7 | | |
| | | | | | | 111.7 | | |

H2O COLLECTED (g) =

71.6

VOL WATER COLLECTED (SCF) =

3.38

GAS SAMPLED (DSCF) =

20.964

MOISTURE IN STACK GAS (% VOL) =

13.87

MOISTURE TEST FIELD DATA SHEET

Meter Box #: CAC 1

Method: 4

Run Number: 6

Ini. Leak Rate:0.000 @10"

Impinger Set: D

Fin. Leak Rate:0.000 @10"

Yi 0.972

Sample Head: B

| POINT | CLOCK TIME | SAMPLE TIME | VOLUME | ORIFICE ^H | METER | | VAC. (IN.HG) | IMPINGER TEMP |
|-------|------------|-------------|---------|---------------|----------|-------|-----------------|------------------|
| | | | 203.152 | | TEMP (F) | | | |
| 1 | 11:45 | 10 | 211.3 | 1.80 | 110 | 110 | 3.0 | 56 |
| 2 | | 20 | 219.1 | 1.80 | 113 | 113 | 3.0 | 58 |
| 3 | 12:15 | 30 | 226.814 | 1.80 | 114 | 114 | 3.0 | 59 |
| | | | 23.662 | 1.800 | 112.3 | 112.3 | | |
| | | | | | | 112.3 | | |

H2O COLLECTED (g) =

70.8

VOL WATER COLLECTED (SCF) =

3.34

GAS SAMPLED (DSCF) =

21.131

MOISTURE IN STACK GAS (% VOL) =

13.64

UNIT 1 CO RATA TEST DATA SHEET

Client: St. Johns River Power Park

Site: SJRPP 2

Bar. Pressure (in.Hg):

29.81

Load: Normal

Method: 1 - 2

Run Number: 7 - 9

Date:

11/09/05

Operators: RRR/JTS

MOISTURE TEST FIELD DATA SHEET

Meter Box #: CAC 1

Method: 4

Run Number: 7

Ini. Leak Rate: 0.000 @10"

Impinger Set: D

Fin. Leak Rate: 0.000 @10"

Yi 0.972

Sample Head: B

| POINT | CLOCK TIME | SAMPLE TIME | VOLUME | ORIFICE ^H | METER | | VAC. (IN.HG) | IMPINGER TEMP |
|-------|------------|-------------|---------|---------------|----------|-------|-----------------|------------------|
| | | | 226.978 | | TEMP (F) | | | |
| 1 | 12:19 | 10 | 234.7 | 1.80 | 112 | 112 | 3.0 | 56 |
| 2 | | 20 | 245.3 | 1.80 | 114 | 114 | 3.0 | 58 |
| 3 | 12:49 | 30 | 249.964 | 1.80 | 114 | 114 | 3.0 | 60 |
| | | | 22.986 | 1.800 | 113.3 | 113.3 | | |
| | | | | | 113.3 | | | |

H2O COLLECTED (g) =

71.6

VOL WATER COLLECTED (SCF) =

3.38

GAS SAMPLED (DSCF) =

20.492

MOISTURE IN STACK GAS (% VOL) =

14.14

MOISTURE TEST FIELD DATA SHEET

Meter Box #: CAC 1

Method: 4

Run Number: 8

Ini. Leak Rate: 0.000 @10"

Impinger Set: D

Fin. Leak Rate: 0.000 @10"

Yi 0.972

Sample Head: B

| POINT | CLOCK TIME | SAMPLE TIME | VOLUME | ORIFICE ^H | METER | | VAC. (IN.HG) | IMPINGER TEMP |
|-------|------------|-------------|---------|---------------|----------|-------|-----------------|------------------|
| | | | 250.024 | | TEMP (F) | | | |
| 1 | 12:51 | 10 | 258.2 | 1.80 | 112 | 112 | 3.0 | 54 |
| 2 | | 20 | 265.5 | 1.80 | 114 | 114 | 3.0 | 55 |
| 3 | 13:21 | 30 | 273.956 | 1.80 | 115 | 115 | 3.0 | 58 |
| | | | 23.932 | 1.800 | 113.7 | 113.7 | | |
| | | | | | 113.7 | | | |

H2O COLLECTED (g) =

71.9

VOL WATER COLLECTED (SCF) =

3.39

GAS SAMPLED (DSCF) =

21.323

MOISTURE IN STACK GAS (% VOL) =

13.72

MOISTURE TEST FIELD DATA SHEET

Meter Box #: CAC 1

Method: 4

Run Number: 9

Ini. Leak Rate: 0.000 @10"

Impinger Set: D

Fin. Leak Rate: 0.000 @10"

Yi 0.972

Sample Head: B

| POINT | CLOCK TIME | SAMPLE TIME | VOLUME | ORIFICE ^H | METER | | VAC. (IN.HG) | IMPINGER TEMP |
|-------|------------|-------------|---------|---------------|----------|-------|-----------------|------------------|
| | | | 274.800 | | TEMP (F) | | | |
| 1 | 13:25 | 10 | 281.6 | 1.80 | 114 | 114 | 3.0 | 58 |
| 2 | | 20 | 290.4 | 1.80 | 115 | 115 | 3.0 | 60 |
| 3 | 13:55 | 30 | 297.772 | 1.80 | 115 | 115 | 3.0 | 62 |
| | | | 22.972 | 1.800 | 114.7 | 114.7 | | |
| | | | | | 114.7 | | | |

H2O COLLECTED (g) =

59.7

VOL WATER COLLECTED (SCF) =

2.81

GAS SAMPLED (DSCF) =

20.432

MOISTURE IN STACK GAS (% VOL) =

12.11

ST. JOHNS RIVER POWER PARK
UNIT NO. 2 OUTLET STACK (CO)

11/09/05

ANALYZER RESPONSE

| SPAN SETTING | GAS UNITS | TANK VALUE | ANALYZER VALUE | DIFF PPM | % SPAN | ANALYZER SERIAL # |
|--------------|-----------|------------|----------------|----------|--------|-------------------|
| 25 | O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 1420/B153 |
| | O2 % | 12.00 | 12.0 | 0.0 | 0.0 | |
| | O2 % | 22.50 | 22.5 | 0.0 | 0.0 | |
| 20 | CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 01410B139 |
| | CO2 % | 11.00 | 11.0 | 0.0 | 0.0 | |
| | CO2 % | 17.30 | 17.2 | -0.1 | -0.5 | |
| 2000 | CO ppm | 0.00 | 0.5 | 0.5 | 0.0 | 48C-71754-369 |
| | CO ppm | 1078.00 | 1085.0 | 7.0 | 0.4 | |
| | CO ppm | 1685.00 | 1690.0 | 5.0 | 0.3 | |

RUN 1 -- SYSTEM BIAS AND SYSTEM DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRETEST CHECK | % SPAN | POSTTEST CHECK | % SPAN | % DRIFT |
|-----------|----------------|---------------|--------|----------------|--------|---------|
| O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| O2 % | 12.00 | 12.0 | 0.0 | 12.0 | 0.0 | 0.0 |
| CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 11.00 | 11.0 | 0.0 | 11.0 | 0.0 | 0.0 |
| CO ppm | 0.50 | 0.8 | 0.0 | 1.0 | 0.0 | 0.0 |
| CO ppm | 1085.00 | 1080.0 | -0.3 | 1090.0 | 0.3 | 0.5 |

RUN 1 -- UNCORRECTED ANALYZER DATA

| DATE & TIME | O2 % | CO2 % | CO PPM |
|----------------|------|-------|--------|
| 11/9/2005 8:55 | 5.84 | 13.40 | 420.50 |
| 11/9/2005 8:56 | 5.76 | 13.46 | 501.00 |
| 11/9/2005 8:57 | 5.68 | 13.55 | 554.00 |
| 11/9/2005 8:58 | 5.68 | 13.58 | 529.50 |
| 11/9/2005 8:59 | 5.73 | 13.56 | 485.50 |
| 11/9/2005 9:00 | 5.72 | 13.54 | 462.00 |
| 11/9/2005 9:01 | 5.75 | 13.52 | 470.00 |
| 11/9/2005 9:02 | 5.76 | 13.49 | 541.50 |
| 11/9/2005 9:03 | 5.69 | 13.54 | 583.00 |
| 11/9/2005 9:04 | 5.78 | 13.51 | 606.50 |
| 11/9/2005 9:05 | 5.76 | 13.49 | 483.50 |
| 11/9/2005 9:06 | 5.73 | 13.53 | 406.50 |
| 11/9/2005 9:07 | 5.69 | 13.52 | 498.00 |
| 11/9/2005 9:08 | 5.63 | 13.61 | 560.50 |
| 11/9/2005 9:09 | 5.69 | 13.58 | 513.50 |
| 11/9/2005 9:10 | 5.75 | 13.49 | 459.50 |
| 11/9/2005 9:11 | 5.69 | 13.55 | 384.00 |
| 11/9/2005 9:12 | 5.65 | 13.58 | 544.50 |
| 11/9/2005 9:13 | 5.74 | 13.54 | 455.00 |
| 11/9/2005 9:14 | 5.76 | 13.46 | 464.50 |
| 11/9/2005 9:15 | 5.76 | 13.46 | 423.00 |
| 11/9/2005 9:16 | 5.79 | 13.46 | 407.00 |

AVERAGES 5.73 13.52 488.77

| | |
|-------------|------|
| FUEL FACTOR | 1800 |
|-------------|------|

| CORRECTED RESULTS | |
|-------------------|--------|
| O2 % | 5.73 |
| CO2 % | 13.52 |
| CO PPM | 485.13 |
| CO LB/MMBTU | 0.470 |

ST. JOHNS RIVER POWER PARK
UNIT NO. 2 OUTLET STACK (CO)

11/09/05

ANALYZER RESPONSE

| SPAN SETTING | GAS UNITS | TANK VALUE | ANALYZER VALUE | DIFF PPM | % SPAN | ANALYZER SERIAL # |
|--------------|-----------|------------|----------------|----------|--------|-------------------|
| 25 | O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 1420/B153 |
| | O2 % | 12.00 | 12.0 | 0.0 | 0.0 | |
| | O2 % | 22.50 | 22.5 | 0.0 | 0.0 | |
| 20 | CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 01410B139 |
| | CO2 % | 11.00 | 11.0 | 0.0 | 0.0 | |
| | CO2 % | 17.30 | 17.2 | -0.1 | -0.5 | |
| 2000 | CO ppm | 0.00 | 0.5 | 0.5 | 0.0 | 48C-71754-369 |
| | CO ppm | 1078.00 | 1085.0 | 7.0 | 0.4 | |
| | CO ppm | 1685.00 | 1690.0 | 5.0 | 0.3 | |

RUN 2 --- SYSTEM BIAS AND SYSTEM DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRETEST CHECK | % SPAN | POSTTEST CHECK | % SPAN | % DRIFT |
|-----------|----------------|---------------|--------|----------------|--------|---------|
| O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| O2 % | 12.00 | 12.0 | 0.0 | 12.0 | 0.0 | 0.0 |
| CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 11.00 | 11.0 | 0.0 | 11.0 | 0.0 | 0.0 |
| CO ppm | 0.50 | 1.0 | 0.0 | 1.0 | 0.0 | 0.0 |
| CO ppm | 1085.00 | 1090.0 | 0.3 | 1090.0 | 0.3 | 0.0 |

RUN 2 --- UNCORRECTED ANALYZER DATA

| DATE & TIME | O2 % | CO2 % | CO PPM |
|----------------|------|-------|--------|
| 11/9/2005 9:28 | 5.69 | 13.52 | 538.50 |
| 11/9/2005 9:29 | 5.73 | 13.49 | 495.00 |
| 11/9/2005 9:30 | 5.66 | 13.57 | 513.00 |
| 11/9/2005 9:31 | 5.73 | 13.51 | 524.00 |
| 11/9/2005 9:32 | 5.58 | 13.62 | 564.50 |
| 11/9/2005 9:33 | 5.61 | 13.63 | 492.00 |
| 11/9/2005 9:34 | 5.74 | 13.52 | 395.50 |
| 11/9/2005 9:35 | 5.72 | 13.51 | 451.50 |
| 11/9/2005 9:36 | 5.70 | 13.53 | 537.00 |
| 11/9/2005 9:37 | 5.74 | 13.52 | 482.00 |
| 11/9/2005 9:38 | 5.66 | 13.56 | 404.50 |
| 11/9/2005 9:39 | 5.70 | 13.56 | 523.00 |
| 11/9/2005 9:40 | 5.71 | 13.53 | 492.00 |
| 11/9/2005 9:41 | 5.73 | 13.54 | 562.00 |
| 11/9/2005 9:42 | 5.71 | 13.54 | 452.00 |
| 11/9/2005 9:43 | 5.60 | 13.64 | 571.00 |
| 11/9/2005 9:44 | 5.73 | 13.54 | 596.00 |
| 11/9/2005 9:45 | 5.73 | 13.54 | 565.50 |
| 11/9/2005 9:46 | 5.75 | 13.53 | 538.00 |
| 11/9/2005 9:47 | 5.69 | 13.56 | 468.50 |
| 11/9/2005 9:48 | 5.65 | 13.61 | 540.00 |
| 11/9/2005 9:49 | 5.74 | 13.55 | 501.00 |

AVERAGES 5.69 13.55 509.39

| | |
|-------------|------|
| FUEL FACTOR | 1800 |
|-------------|------|

| CORRECTED RESULTS | |
|-------------------|--------|
| O2 % | 5.69 |
| CO2 % | 13.55 |
| CO PPM | 503.25 |
| CO LB/MMBTU | 0.486 |

ST. JOHNS RIVER POWER PARK
UNIT NO. 2 OUTLET STACK (CO)

11/09/05

ANALYZER RESPONSE

| SPAN SETTING | GAS UNITS | TANK VALUE | ANALYZER VALUE | DIFF PPM | % SPAN | ANALYZER SERIAL # |
|--------------|-----------|------------|----------------|----------|--------|-------------------|
| 25 | O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 1420/B153 |
| | O2 % | 12.00 | 12.0 | 0.0 | 0.0 | |
| | O2 % | 22.50 | 22.5 | 0.0 | 0.0 | |
| 20 | CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 01410B139 |
| | CO2 % | 11.00 | 11.0 | 0.0 | 0.0 | |
| | CO2 % | 17.30 | 17.2 | -0.1 | -0.5 | |
| 2000 | CO ppm | 0.00 | 0.5 | 0.5 | 0.0 | 48C-71754-369 |
| | CO ppm | 1078.00 | 1085.0 | 7.0 | 0.4 | |
| | CO ppm | 1685.00 | 1690.0 | 5.0 | 0.3 | |

RUN 3 --- SYSTEM BIAS AND SYSTEM DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRETEST CHECK | % SPAN | POSTTEST CHECK | % SPAN | % DRIFT |
|-----------|----------------|---------------|--------|----------------|--------|---------|
| O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| O2 % | 12.00 | 12.0 | 0.0 | 12.0 | 0.0 | 0.0 |
| CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 11.00 | 11.0 | 0.0 | 11.0 | 0.0 | 0.0 |
| CO ppm | 0.50 | 1.0 | 0.0 | 1.1 | 0.0 | 0.0 |
| CO ppm | 1085.00 | 1090.0 | 0.3 | 1092.0 | 0.4 | 0.1 |

RUN 3 --- UNCORRECTED ANALYZER DATA

| DATE & TIME | O2 % | CO2 % | CO PPM |
|-----------------|------|-------|--------|
| 11/9/2005 10:00 | 5.69 | 13.56 | 482.50 |
| 11/9/2005 10:01 | 5.70 | 13.56 | 474.00 |
| 11/9/2005 10:02 | 5.65 | 13.59 | 508.00 |
| 11/9/2005 10:03 | 5.73 | 13.56 | 454.00 |
| 11/9/2005 10:04 | 5.74 | 13.52 | 446.00 |
| 11/9/2005 10:05 | 5.73 | 13.53 | 475.50 |
| 11/9/2005 10:06 | 5.77 | 13.51 | 420.00 |
| 11/9/2005 10:07 | 5.69 | 13.56 | 510.50 |
| 11/9/2005 10:08 | 5.71 | 13.54 | 525.50 |
| 11/9/2005 10:09 | 5.74 | 13.51 | 485.50 |
| 11/9/2005 10:10 | 5.71 | 13.56 | 537.00 |
| 11/9/2005 10:11 | 5.74 | 13.53 | 510.00 |
| 11/9/2005 10:12 | 5.68 | 13.55 | 505.50 |
| 11/9/2005 10:13 | 5.66 | 13.59 | 552.50 |
| 11/9/2005 10:14 | 5.78 | 13.48 | 484.50 |
| 11/9/2005 10:15 | 5.71 | 13.51 | 494.00 |
| 11/9/2005 10:16 | 5.63 | 13.59 | 532.50 |
| 11/9/2005 10:17 | 5.63 | 13.61 | 608.00 |
| 11/9/2005 10:18 | 5.65 | 13.58 | 605.50 |
| 11/9/2005 10:19 | 5.74 | 13.53 | 555.00 |
| 11/9/2005 10:20 | 5.74 | 13.46 | 449.00 |
| 11/9/2005 10:21 | 5.78 | 13.46 | 423.50 |

AVERAGES 5.71 13.54 501.75

| | |
|-------------|------|
| FUEL FACTOR | 1800 |
|-------------|------|

| CORRECTED RESULTS | |
|-------------------|--------|
| O2 % | 5.71 |
| CO2 % | 13.54 |
| CO PPM | 495.21 |
| CO LB/MMBTU | 0.479 |

ST. JOHNS RIVER POWER PARK
UNIT NO. 2 OUTLET STACK (CO)

11/09/05

ANALYZER RESPONSE

| SPAN SETTING | GAS UNITS | TANK VALUE | ANALYZER VALUE | DIFF PPM | % SPAN | ANALYZER SERIAL # |
|--------------|-----------|------------|----------------|----------|--------|-------------------|
| 25 | O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 1420/B153 |
| | O2 % | 12.00 | 12.0 | 0.0 | 0.0 | |
| | O2 % | 22.50 | 22.5 | 0.0 | 0.0 | |
| 20 | CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 01410B139 |
| | CO2 % | 11.00 | 11.0 | 0.0 | 0.0 | |
| | CO2 % | 17.30 | 17.2 | -0.1 | -0.5 | |
| 2000 | CO ppm | 0.00 | 0.5 | 0.5 | 0.0 | 48C-71754-369 |
| | CO ppm | 1078.00 | 1085.0 | 7.0 | 0.4 | |
| | CO ppm | 1685.00 | 1690.0 | 5.0 | 0.3 | |

RUN 4 -- SYSTEM BIAS AND SYSTEM DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRETEST CHECK | % SPAN | POSTTEST CHECK | % SPAN | % DRIFT |
|-----------|----------------|---------------|--------|----------------|--------|---------|
| O2 % | 0.00 | 0.0 | 0.0 | 0.1 | 0.4 | 0.4 |
| O2 % | 12.00 | 12.0 | 0.0 | 12.0 | 0.0 | 0.0 |
| CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 11.00 | 11.0 | 0.0 | 11.0 | 0.0 | 0.0 |
| CO ppm | 0.50 | 1.1 | 0.0 | 1.0 | 0.0 | 0.0 |
| CO ppm | 1085.00 | 1092.0 | 0.4 | 1106.0 | 1.1 | 0.7 |

RUN 4 -- UNCORRECTED ANALYZER DATA

| DATE & TIME | O2 % | CO2 % | CO PPM |
|-----------------|------|-------|--------|
| 11/9/2005 10:41 | 5.63 | 13.59 | 502.00 |
| 11/9/2005 10:42 | 5.74 | 13.53 | 489.50 |
| 11/9/2005 10:43 | 5.69 | 13.54 | 443.00 |
| 11/9/2005 10:44 | 5.70 | 13.58 | 526.00 |
| 11/9/2005 10:45 | 5.68 | 13.56 | 475.00 |
| 11/9/2005 10:46 | 5.73 | 13.53 | 576.00 |
| 11/9/2005 10:47 | 5.74 | 13.52 | 494.00 |
| 11/9/2005 10:48 | 5.66 | 13.59 | 527.50 |
| 11/9/2005 10:49 | 5.66 | 13.60 | 578.00 |
| 11/9/2005 10:50 | 5.74 | 13.52 | 445.00 |
| 11/9/2005 10:51 | 5.65 | 13.59 | 454.50 |
| 11/9/2005 10:52 | 5.64 | 13.61 | 450.50 |
| 11/9/2005 10:53 | 5.61 | 13.64 | 572.50 |
| 11/9/2005 10:54 | 5.65 | 13.59 | 549.50 |
| 11/9/2005 10:55 | 5.71 | 13.59 | 483.00 |
| 11/9/2005 10:56 | 5.69 | 13.55 | 483.00 |
| 11/9/2005 10:57 | 5.71 | 13.55 | 443.00 |
| 11/9/2005 10:58 | 5.71 | 13.53 | 456.50 |
| 11/9/2005 10:59 | 5.76 | 13.50 | 541.50 |
| 11/9/2005 11:00 | 5.71 | 13.54 | 412.00 |
| 11/9/2005 11:01 | 5.68 | 13.54 | 489.50 |
| 11/9/2005 11:02 | 5.60 | 13.61 | 471.00 |

AVERAGES 5.69 13.56 493.75

| | |
|-------------|------|
| FUEL FACTOR | 1800 |
|-------------|------|

| CORRECTED RESULTS | |
|-------------------|--------|
| O2 % | 5.66 |
| CO2 % | 13.56 |
| CO PPM | 483.75 |
| CO LB/MMBTU | 0.467 |

ST. JOHNS RIVER POWER PARK
UNIT NO. 2 OUTLET STACK (CO)

11/09/05

ANALYZER RESPONSE

| SPAN SETTING | GAS UNITS | TANK VALUE | ANALYZER VALUE | DIFF PPM | % SPAN | ANALYZER SERIAL # |
|--------------|-----------|------------|----------------|----------|--------|-------------------|
| 25 | O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 1420/B153 |
| | O2 % | 12.00 | 12.0 | 0.0 | 0.0 | |
| | O2 % | 22.50 | 22.5 | 0.0 | 0.0 | |
| 20 | CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 01410B139 |
| | CO2 % | 11.00 | 11.0 | 0.0 | 0.0 | |
| | CO2 % | 17.30 | 17.2 | -0.1 | -0.5 | |
| 2000 | CO ppm | 0.00 | 0.5 | 0.5 | 0.0 | 48C-71754-369 |
| | CO ppm | 1078.00 | 1085.0 | 7.0 | 0.4 | |
| | CO ppm | 1685.00 | 1690.0 | 5.0 | 0.3 | |

RUN 5 --- SYSTEM BIAS AND SYSTEM DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRETEST CHECK | % SPAN | POSTTEST CHECK | % SPAN | % DRIFT |
|-----------|----------------|---------------|--------|----------------|--------|---------|
| O2 % | 0.00 | 0.1 | 0.4 | 0.1 | 0.4 | 0.0 |
| O2 % | 12.00 | 12.0 | 0.0 | 12.0 | 0.0 | 0.0 |
| CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 11.00 | 11.0 | 0.0 | 11.0 | 0.0 | 0.0 |
| CO ppm | 0.50 | 1.0 | 0.0 | 0.5 | 0.0 | 0.0 |
| CO ppm | 1085.00 | 1106.0 | 1.1 | 1081.0 | -0.2 | -1.3 |

RUN 5 --- UNCORRECTED ANALYZER DATA

| DATE & TIME | O2 % | CO2 % | CO PPM |
|-----------------|------|-------|--------|
| 11/9/2005 11:13 | 5.69 | 13.52 | 385.50 |
| 11/9/2005 11:14 | 5.63 | 13.57 | 465.50 |
| 11/9/2005 11:15 | 5.68 | 13.55 | 421.50 |
| 11/9/2005 11:16 | 5.68 | 13.57 | 388.50 |
| 11/9/2005 11:17 | 5.67 | 13.57 | 398.50 |
| 11/9/2005 11:18 | 5.59 | 13.65 | 455.00 |
| 11/9/2005 11:19 | 5.55 | 13.68 | 430.00 |
| 11/9/2005 11:20 | 5.68 | 13.61 | 451.50 |
| 11/9/2005 11:21 | 5.68 | 13.58 | 478.00 |
| 11/9/2005 11:22 | 5.67 | 13.61 | 400.50 |
| 11/9/2005 11:23 | 5.71 | 13.55 | 415.50 |
| 11/9/2005 11:24 | 5.69 | 13.56 | 421.00 |
| 11/9/2005 11:25 | 5.61 | 13.64 | 322.00 |
| 11/9/2005 11:26 | 5.66 | 13.58 | 379.00 |
| 11/9/2005 11:27 | 5.70 | 13.56 | 447.00 |
| 11/9/2005 11:28 | 5.65 | 13.57 | 462.00 |
| 11/9/2005 11:29 | 5.67 | 13.56 | 497.50 |
| 11/9/2005 11:30 | 5.70 | 13.53 | 508.00 |
| 11/9/2005 11:31 | 5.70 | 13.52 | 413.00 |
| 11/9/2005 11:32 | 5.66 | 13.57 | 525.00 |
| 11/9/2005 11:33 | 5.69 | 13.55 | 453.50 |
| 11/9/2005 11:34 | 5.73 | 13.52 | 320.50 |

AVERAGES 5.67 13.57 429.02

| | |
|-------------|------|
| FUEL FACTOR | 1800 |
|-------------|------|

| CORRECTED RESULTS | |
|-------------------|--------|
| O2 % | 5.61 |
| CO2 % | 13.57 |
| CO PPM | 422.49 |
| CO LB/MMBTU | 0.408 |

ST. JOHNS RIVER POWER PARK
UNIT NO. 2 OUTLET STACK (CO)

11/09/05

ANALYZER RESPONSE

| SPAN SETTING | GAS UNITS | TANK VALUE | ANALYZER VALUE | DIFF PPM | % SPAN | ANALYZER SERIAL # |
|--------------|-----------|------------|----------------|----------|--------|-------------------|
| 25 | O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 1420/B153 |
| | O2 % | 12.00 | 12.0 | 0.0 | 0.0 | |
| | O2 % | 22.50 | 22.5 | 0.0 | 0.0 | |
| 20 | CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 01410B139 |
| | CO2 % | 11.00 | 11.0 | 0.0 | 0.0 | |
| | CO2 % | 17.30 | 17.2 | -0.1 | -0.5 | |
| 2000 | CO ppm | 0.00 | 0.5 | 0.5 | 0.0 | 48C-71754-369 |
| | CO ppm | 1078.00 | 1085.0 | 7.0 | 0.4 | |
| | CO ppm | 1685.00 | 1690.0 | 5.0 | 0.3 | |

RUN 6 --- SYSTEM BIAS AND SYSTEM DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRETEST CHECK | % SPAN | POSTTEST CHECK | % SPAN | % DRIFT |
|-----------|----------------|---------------|--------|----------------|--------|---------|
| O2 % | 0.00 | 0.1 | 0.4 | 0.0 | 0.0 | -0.4 |
| O2 % | 12.00 | 12.0 | 0.0 | 12.0 | 0.0 | 0.0 |
| CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 11.00 | 11.0 | 0.0 | 11.0 | 0.0 | 0.0 |
| CO ppm | 0.50 | 0.5 | 0.0 | 0.4 | 0.0 | 0.0 |
| CO ppm | 1085.00 | 1081.0 | -0.2 | 1080.0 | -0.3 | -0.1 |

RUN 6 --- UNCORRECTED ANALYZER DATA

| DATE & TIME | O2 % | CO2 % | CO PPM |
|-----------------|------|-------|--------|
| 11/9/2005 11:45 | 5.68 | 13.42 | 440.00 |
| 11/9/2005 11:46 | 5.77 | 13.48 | 462.50 |
| 11/9/2005 11:47 | 5.72 | 13.51 | 381.50 |
| 11/9/2005 11:48 | 5.66 | 13.56 | 411.00 |
| 11/9/2005 11:49 | 5.51 | 13.67 | 618.50 |
| 11/9/2005 11:50 | 5.58 | 13.65 | 539.50 |
| 11/9/2005 11:51 | 5.63 | 13.63 | 525.50 |
| 11/9/2005 11:52 | 5.70 | 13.58 | 496.50 |
| 11/9/2005 11:53 | 5.74 | 13.54 | 442.00 |
| 11/9/2005 11:54 | 5.61 | 13.58 | 441.50 |
| 11/9/2005 11:55 | 5.58 | 13.65 | 477.50 |
| 11/9/2005 11:56 | 5.65 | 13.61 | 435.00 |
| 11/9/2005 11:57 | 5.64 | 13.58 | 490.00 |
| 11/9/2005 11:58 | 5.69 | 13.56 | 515.00 |
| 11/9/2005 11:59 | 5.62 | 13.60 | 475.50 |
| 11/9/2005 12:00 | 5.64 | 13.59 | 517.50 |
| 11/9/2005 12:01 | 5.67 | 13.55 | 498.50 |
| 11/9/2005 12:02 | 5.68 | 13.54 | 432.00 |
| 11/9/2005 12:03 | 5.67 | 13.56 | 411.00 |
| 11/9/2005 12:04 | 5.71 | 13.50 | 430.00 |
| 11/9/2005 12:05 | 5.64 | 13.54 | 479.00 |
| 11/9/2005 12:06 | 5.73 | 13.50 | 456.50 |

AVERAGES 5.66 13.56 471.64

| | |
|-------------|------|
| FUEL FACTOR | 1800 |
|-------------|------|

| CORRECTED RESULTS | |
|-------------------|--------|
| O2 % | 5.63 |
| CO2 % | 13.56 |
| CO PPM | 470.29 |
| CO LB/MMBTU | 0.454 |

ST. JOHNS RIVER POWER PARK
UNIT NO. 2 OUTLET STACK (CO)

11/09/05

ANALYZER RESPONSE

| SPAN SETTING | GAS UNITS | TANK VALUE | ANALYZER VALUE | DIFF PPM | % SPAN | ANALYZER SERIAL # |
|--------------|-----------|------------|----------------|----------|--------|-------------------|
| 25 | O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 1420/B153 |
| | O2 % | 12.00 | 12.0 | 0.0 | 0.0 | |
| | O2 % | 22.50 | 22.5 | 0.0 | 0.0 | |
| 20 | CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 01410B139 |
| | CO2 % | 11.00 | 11.0 | 0.0 | 0.0 | |
| | CO2 % | 17.30 | 17.2 | -0.1 | -0.5 | |
| 2000 | CO ppm | 0.00 | 0.5 | 0.5 | 0.0 | 48C-71754-369 |
| | CO ppm | 1078.00 | 1085.0 | 7.0 | 0.4 | |
| | CO ppm | 1685.00 | 1690.0 | 5.0 | 0.3 | |

RUN 7 --- SYSTEM BIAS AND SYSTEM DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRETEST CHECK | % SPAN | POSTTEST CHECK | % SPAN | % DRIFT |
|-----------|----------------|---------------|--------|----------------|--------|---------|
| O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| O2 % | 12.00 | 12.0 | 0.0 | 12.0 | 0.0 | 0.0 |
| CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 11.00 | 11.0 | 0.0 | 11.0 | 0.0 | 0.0 |
| CO ppm | 0.50 | 0.4 | 0.0 | 0.3 | 0.0 | 0.0 |
| CO ppm | 1085.00 | 1080.0 | -0.3 | 1078.0 | -0.4 | -0.1 |

RUN 7 --- UNCORRECTED ANALYZER DATA

| DATE & TIME | O2 % | CO2 % | CO PPM |
|-----------------|------|-------|--------|
| 11/9/2005 12:19 | 5.69 | 13.49 | 440.00 |
| 11/9/2005 12:20 | 5.54 | 13.60 | 464.50 |
| 11/9/2005 12:21 | 5.55 | 13.60 | 623.00 |
| 11/9/2005 12:22 | 5.65 | 13.55 | 523.00 |
| 11/9/2005 12:23 | 5.78 | 13.45 | 393.00 |
| 11/9/2005 12:24 | 5.73 | 13.47 | 357.50 |
| 11/9/2005 12:25 | 5.70 | 13.48 | 450.50 |
| 11/9/2005 12:26 | 5.72 | 13.47 | 355.00 |
| 11/9/2005 12:27 | 5.61 | 13.55 | 440.50 |
| 11/9/2005 12:28 | 5.66 | 13.51 | 506.00 |
| 11/9/2005 12:29 | 5.70 | 13.49 | 407.00 |
| 11/9/2005 12:30 | 5.73 | 13.46 | 419.50 |
| 11/9/2005 12:31 | 5.59 | 13.52 | 423.50 |
| 11/9/2005 12:32 | 5.63 | 13.58 | 507.00 |
| 11/9/2005 12:33 | 5.60 | 13.55 | 461.00 |
| 11/9/2005 12:34 | 5.73 | 13.47 | 441.50 |
| 11/9/2005 12:35 | 5.69 | 13.48 | 315.00 |
| 11/9/2005 12:36 | 5.66 | 13.50 | 442.00 |
| 11/9/2005 12:37 | 5.68 | 13.47 | 354.50 |
| 11/9/2005 12:38 | 5.59 | 13.56 | 417.50 |
| 11/9/2005 12:39 | 5.56 | 13.58 | 495.00 |
| 11/9/2005 12:40 | 5.59 | 13.59 | 471.50 |

AVERAGES 5.65 13.52 441.27

| | |
|-------------|------|
| FUEL FACTOR | 1800 |
|-------------|------|

| CORRECTED RESULTS | |
|-------------------|--------|
| O2 % | 5.65 |
| CO2 % | 13.52 |
| CO PPM | 440.66 |
| CO LB/MMBTU | 0.427 |

ST. JOHNS RIVER POWER PARK
UNIT NO. 2 OUTLET STACK (CO)

11/09/05

ANALYZER RESPONSE

| SPAN SETTING | GAS UNITS | TANK VALUE | ANALYZER VALUE | DIFF PPM | % SPAN | ANALYZER SERIAL # |
|--------------|-----------|------------|----------------|----------|--------|-------------------|
| 25 | O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 1420/B153 |
| | O2 % | 12.00 | 12.0 | 0.0 | 0.0 | |
| | O2 % | 22.50 | 22.5 | 0.0 | 0.0 | |
| 20 | CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 01410B139 |
| | CO2 % | 11.00 | 11.0 | 0.0 | 0.0 | |
| | CO2 % | 17.30 | 17.2 | -0.1 | -0.5 | |
| 2000 | CO ppm | 0.00 | 0.5 | 0.5 | 0.0 | 48C-71754-369 |
| | CO ppm | 1078.00 | 1085.0 | 7.0 | 0.4 | |
| | CO ppm | 1685.00 | 1690.0 | 5.0 | 0.3 | |

RUN 8 -- SYSTEM BIAS AND SYSTEM DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRETEST CHECK | % SPAN | POSTTEST CHECK | % SPAN | % DRIFT |
|-----------|----------------|---------------|--------|----------------|--------|---------|
| O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| O2 % | 12.00 | 12.0 | 0.0 | 12.0 | 0.0 | 0.0 |
| CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 11.00 | 11.0 | 0.0 | 11.0 | 0.0 | 0.0 |
| CO ppm | 0.50 | 0.3 | 0.0 | 0.3 | 0.0 | 0.0 |
| CO ppm | 1085.00 | 1078.0 | -0.4 | 1079.0 | -0.3 | 0.1 |

RUN 8 -- UNCORRECTED ANALYZER DATA

| DATE & TIME | O2 % | CO2 % | CO PPM |
|-----------------|------|-------|--------|
| 11/9/2005 12:51 | 5.74 | 13.43 | 516.50 |
| 11/9/2005 12:52 | 5.74 | 13.37 | 360.00 |
| 11/9/2005 12:53 | 5.68 | 13.45 | 398.50 |
| 11/9/2005 12:54 | 5.62 | 13.47 | 336.00 |
| 11/9/2005 12:55 | 5.77 | 13.45 | 350.00 |
| 11/9/2005 12:56 | 5.76 | 13.37 | 295.50 |
| 11/9/2005 12:57 | 5.68 | 13.45 | 342.50 |
| 11/9/2005 12:58 | 5.67 | 13.48 | 362.00 |
| 11/9/2005 12:59 | 5.75 | 13.40 | 371.00 |
| 11/9/2005 13:00 | 5.64 | 13.46 | 395.00 |
| 11/9/2005 13:01 | 5.63 | 13.51 | 390.00 |
| 11/9/2005 13:02 | 5.74 | 13.43 | 357.50 |
| 11/9/2005 13:03 | 5.73 | 13.39 | 314.00 |
| 11/9/2005 13:04 | 5.71 | 13.44 | 298.00 |
| 11/9/2005 13:05 | 5.68 | 13.42 | 359.00 |
| 11/9/2005 13:06 | 5.71 | 13.44 | 473.00 |
| 11/9/2005 13:07 | 5.68 | 13.46 | 389.00 |
| 11/9/2005 13:08 | 5.68 | 13.46 | 390.00 |
| 11/9/2005 13:09 | 5.69 | 13.48 | 375.50 |
| 11/9/2005 13:10 | 5.78 | 13.39 | 295.00 |
| 11/9/2005 13:11 | 5.68 | 13.45 | 336.00 |
| 11/9/2005 13:12 | 5.63 | 13.52 | 434.50 |

AVERAGES 5.70 13.44 369.93

| | |
|-------------|------|
| FUEL FACTOR | 1800 |
|-------------|------|

| CORRECTED RESULTS | |
|-------------------|--------|
| O2 % | 5.70 |
| CO2 % | 13.44 |
| CO PPM | 369.56 |
| CO LB/MMBTU | 0.360 |

ST. JOHNS RIVER POWER PARK
UNIT NO. 2 OUTLET STACK (CO)

11/09/05

ANALYZER RESPONSE

| SPAN SETTING | GAS UNITS | TANK VALUE | ANALYZER VALUE | DIFF PPM | % SPAN | ANALYZER SERIAL # |
|--------------|-----------|------------|----------------|----------|--------|-------------------|
| 25 | O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 1420/B153 |
| | O2 % | 12.00 | 12.0 | 0.0 | 0.0 | |
| | O2 % | 22.50 | 22.5 | 0.0 | 0.0 | |
| 20 | CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 01410B139 |
| | CO2 % | 11.00 | 11.0 | 0.0 | 0.0 | |
| | CO2 % | 17.30 | 17.2 | -0.1 | -0.5 | |
| 2000 | CO ppm | 0.00 | 0.5 | 0.5 | 0.0 | 48C-71754-369 |
| | CO ppm | 1078.00 | 1085.0 | 7.0 | 0.4 | |
| | CO ppm | 1685.00 | 1690.0 | 5.0 | 0.3 | |

RUN 9 --- SYSTEM BIAS AND SYSTEM DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRETEST CHECK | % SPAN | POSTTEST CHECK | % SPAN | % DRIFT |
|-----------|----------------|---------------|--------|----------------|--------|---------|
| O2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| O2 % | 12.00 | 12.0 | 0.0 | 12.0 | 0.0 | 0.0 |
| CO2 % | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 11.00 | 11.0 | 0.0 | 10.9 | -0.5 | -0.5 |
| CO ppm | 0.50 | 0.3 | 0.0 | 0.2 | 0.0 | 0.0 |
| CO ppm | 1085.00 | 1079.0 | -0.3 | 1076.0 | -0.5 | -0.2 |

RUN 9 --- UNCORRECTED ANALYZER DATA

| DATE & TIME | O2 % | CO2 % | CO PPM |
|-----------------|------|-------|--------|
| 11/9/2005 13:25 | 5.71 | 13.44 | 354.00 |
| 11/9/2005 13:26 | 5.74 | 13.40 | 371.50 |
| 11/9/2005 13:27 | 5.81 | 13.36 | 308.50 |
| 11/9/2005 13:28 | 5.83 | 13.31 | 252.00 |
| 11/9/2005 13:29 | 5.70 | 13.41 | 251.00 |
| 11/9/2005 13:30 | 5.74 | 13.40 | 308.50 |
| 11/9/2005 13:31 | 5.78 | 13.37 | 313.50 |
| 11/9/2005 13:32 | 5.73 | 13.39 | 341.00 |
| 11/9/2005 13:33 | 5.69 | 13.42 | 392.00 |
| 11/9/2005 13:34 | 5.73 | 13.40 | 335.50 |
| 11/9/2005 13:35 | 5.78 | 13.37 | 330.00 |
| 11/9/2005 13:36 | 5.74 | 13.37 | 360.00 |
| 11/9/2005 13:37 | 5.79 | 13.35 | 363.00 |
| 11/9/2005 13:38 | 5.85 | 13.30 | 294.50 |
| 11/9/2005 13:39 | 5.81 | 13.32 | 308.00 |
| 11/9/2005 13:40 | 5.79 | 13.33 | 251.00 |
| 11/9/2005 13:41 | 5.78 | 13.34 | 262.00 |
| 11/9/2005 13:42 | 5.78 | 13.34 | 320.00 |
| 11/9/2005 13:43 | 5.74 | 13.37 | 265.50 |
| 11/9/2005 13:44 | 5.73 | 13.39 | 278.00 |
| 11/9/2005 13:45 | 5.71 | 13.43 | 295.50 |
| 11/9/2005 13:46 | 5.79 | 13.38 | 257.50 |

AVERAGES 5.76 13.37 309.66

| | |
|-------------|------|
| FUEL FACTOR | 1800 |
|-------------|------|

| CORRECTED RESULTS | |
|-------------------|--------|
| O2 % | 5.76 |
| CO2 % | 13.43 |
| CO PPM | 309.62 |
| CO LB/MMBTU | 0.302 |

APPENDIX 2
Reference Method Quality Assurance



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:

Linde Gas LLC
Maumee Specialty Gas Plant
6421 Monclova Road
MAUMEE OH 43537
419-893-7226

Produced for customer:

LINDE SANFORD INTERBRANCH
103 COMMERCE WAY
SANFORD FL 32771
USA
407-321-4030

| | | | |
|-------------------------|--------------|-----------------------------|-----------------|
| Material: | 6683 | Blend Tolerance: | 5 % Relative |
| EPA SO2/NO/CO2/CO/N2 | A31 | Blend Type: | EPA Protocol |
| Production #: | 100091954 | Cyl. Pressure: | 2000 psig |
| Lot #: | 02499L4160UA | Balance Gas: | Nitrogen |
| Cylinder #: | CC174810 | CGA: | 660 |
| Expiration Date: | 12/3/2006 | Analytical Accuracy: | 1.00 % Relative |
| Shelf Life: | 24 months | Confidence: | 95 % |

| CAS # | Chemical Component | Measured Concentration | Concentration and Uncertainty | Date of Certification |
|------------|--------------------|------------------------|-------------------------------|-----------------------|
| 7446-09-5 | Sulfur Dioxide | 165 | 160 +/- 2 ppm | 12/03/2004 |
| 10102-43-9 | Nitric Oxide | 550 | 555 +/- 6 ppm | 12/03/2004 |
| 124-38-9 | Carbon Dioxide | 11 | 11.0 +/- 0.1 % | 12/03/2004 |
| 630-08-0 | Carbon Monoxide | 1100 | 1078 +/- 11 ppm | 12/03/2004 |
| 7727-37-9 | Nitrogen | | Balance | 12/03/2004 |

| CAS # | Analyzed (Don't Ref. Use Only) | Concentration | Analysis Date |
|-------|--------------------------------|---------------|---------------|
| N/A | NOx | 556 ppm | 12/03/2004 |

| CAS # | Reference Standard | Cylinder/Standard | Concentration | Expiry Date |
|------------|--------------------|---------------------|---------------|-------------|
| 10102-43-9 | Nitric Oxide | CC128875 , GMIS | 968.3 ppm | 06/05/2005 |
| 630-08-0 | Carbon Monoxide | CC167409 , GMIS | 2512 ppm | 01/09/2006 |
| 7446-09-5 | Sulfur Dioxide | CC7797 , GMIS | 500.3 ppm | 09/07/2006 |
| 124-38-9 | Carbon Dioxide | CC59164 , NTRM 1886 | 6.900 % | 10/02/2008 |

| Instrument | Serial # | Analytical Principle | Calibration Date |
|------------------|------------|-------------------------|------------------|
| Horiba VIA-510 | 569466011 | Non-Dispersive Infrared | 09/16/2004 |
| Horiba VIA-510 | 568849043 | Non-Dispersive Infrared | 09/13/2004 |
| Horiba CLA-510SS | 569466055 | Chemiluminescence | 07/16/2004 |
| Horiba VIA-510 | 4131546004 | Non-Dispersive Infrared | 09/16/2004 |

All analyses are performed under controlled environmental conditions. This product is manufactured using equipment which has been calibrated with NIST traceable, or equivalent, standards, weights, or equipment.

Analytical report approved by Jennifer Carney

REC'D DEC 15 2004

Jennifer Carney



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:

Linde Gas LLC
Maumee Specialty Gas Plant
6421 Monclova Road
MAUMEE OH 43537
419-893-7226

Produced for customer:

LINDE JACKSONVILLE INTERBRANCH
4502 LENOX AVE
JACKSONVILLE FL 32205
USA
904-388-4999

| | | | |
|-------------------------|---------------|-----------------------------|-----------------|
| Material: | 2205 | Blend Tolerance: | 5 % Relative |
| EPA MISC 5 COMPONENT | A31 | Blend Type: | EPA Protocol |
| Production #: | 100099029 | Cyl. Pressure: | 1700 psig |
| Lot #: | 02499B3260EE1 | Balance Gas: | Nitrogen |
| Cylinder #: | CC154315 | CGA: | 660 |
| Expiration Date: | 4/15/2007 | Analytical Accuracy: | 1.00 % Relative |
| Shelf Life: | 24 months | Confidence:- | 95 % |

*** Recertification of Cylinder**

| CAS # | Certified Component | Requested Concentration | Concentration and Uncertainty | Date of Certification |
|------------|---------------------|-------------------------|-------------------------------|-----------------------|
| 7446-09-5 | Sulfur Dioxide | 246 | 245 +/- 3 ppm | 04/15/2005 |
| 10102-43-9 | Nitric Oxide | 838 | 838 +/- 8 ppm | 04/15/2005 |
| 630-08-0 | Carbon Monoxide | 1685 | 1685 +/- 17 ppm | 04/15/2005 |
| 124-38-9 | Carbon Dioxide | 17.2 | 17.3 +/- 0.2 % | 04/15/2005 |
| 7727-37-9 | Nitrogen | | Balance | 04/15/2005 |

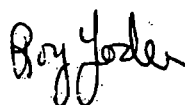
| CAS # | Analyzed (For Ref Use Only) | Concentration | Analysis Date |
|-------|-----------------------------|---------------|---------------|
| N/A | NOx | 838 ppm | 04/15/2005 |

| CAS # | Reference Standard | Cylinder/Standard # | Concentration | Expire Date |
|------------|--------------------|---------------------|---------------|-------------|
| 630-08-0 | Carbon Monoxide | CC167409 , GMIS | 2512 ppm | 01/09/2006 |
| 7446-09-5 | Sulfur Dioxide | CC149383 , GMIS | 501.8 ppm | 01/24/2007 |
| 10102-43-9 | Nitric Oxide | CC4124 , GMIS | 985.9 ppm | 01/24/2007 |
| 124-38-9 | Carbon Dioxide | CC59228 , NTRM | 19.91 % | 08/01/2005 |

| Instrument | Serial # | Analytical Principle | Calibration Date |
|-------------------|------------|-------------------------|------------------|
| Horiba VIA-510 | 569466011 | Non-Dispersive Infrared | 02/09/2005 |
| Horiba VIA-510 | 568849043 | Non-Dispersive Infrared | 02/14/2005 |
| Nicolet Magna 550 | ACJ9300713 | FTIR | 02/17/2005 |
| Horiba CLA-510SS | 568093024 | Chemiluminescence | 02/17/2005 |

All analyses are performed under controlled environmental conditions. This product is manufactured using equipment which has been calibrated with NIST traceable, or equivalent, standards, weights, or equipment.

Analytical report approved by Roy Yoder




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:

Linde Gas LLC
Maumee Specialty Gas Plant
6421 Monclova Road
MAUMEE OH 43537
419-893-7226

Produced for customer:

LINDE SANFORD INTERBRANCH
103 COMMERCE WAY
SANFORD FL 32771
USA
407-321-4030

| | | | | |
|-----------------------------|--------------|-----|-----------------------------|-----------------|
| Material: | 2179 | | Blend Tolerance: | 5 % Relative |
| MISC 3 COMPONENT EPA | | A31 | Blend Type: | EPA Protocol |
| Production #: | 100105399 | | Cyl. Pressure: | 2000 psig |
| Lot #: | 02499H5220GH | | Balance Gas: | Nitrogen |
| Cylinder #: | CC34525 | | CGA: | 590 |
| Expiration Date: | 8/29/2008 | | Analytical Accuracy: | 1.00 % Relative |
| Shelf Life: | 36 months | | Confidence: | 95 % |

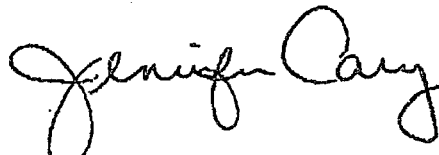
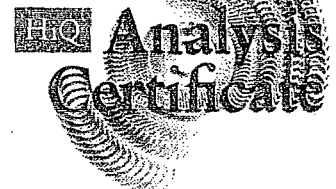
| CAS # | Certified Component | Requested Concentration | Concentration and Uncertainty | Date of Certification |
|-----------|---------------------|-------------------------|-------------------------------|-----------------------|
| 7782-44-7 | Oxygen | 12 | 12.0 +/- 0.1 % | 08/29/2005 |
| 124-38-9 | Carbon Dioxide | 10 | 9.89 +/- 0.1 % | 08/29/2005 |
| 7727-37-9 | Nitrogen | | Balance | 08/29/2005 |

| CAS # | Reference Standard | Cylinder/Standard # | Concentration | Expire Date |
|-----------|--------------------|---------------------|---------------|-------------|
| 7782-44-7 | Oxygen | CC73283 , NTRM | 20.89 % | 10/02/2008 |
| 124-38-9 | Carbon Dioxide | CC73874 , GMIS | 16.01 % | 05/08/2007 |

| Instrument | Serial # | Analytical Principle | Calibration Date |
|----------------|-----------|-------------------------|------------------|
| Horiba VIA-510 | 568849043 | Non-Dispersive Infrared | 07/05/2005 |
| Rosemount 755R | 1000559 | Paramagnetic | 07/05/2005 |

All analyses are performed under controlled environmental conditions. This product is manufactured using equipment which has been calibrated with NIST traceable, or equivalent, standards, weights, or equipment.

Analytical report approved by Jennifer Carney

AIR LIQUIDE

CERTIFICATION OF ANALYSIS

EPA Protocol Gases

| | | | | | |
|---|------------------------------|------------------------------|-------------------|----------------------------|------------------------|
| Cyl. Number: CC 148551 | Cyl. Pressure: 2000PSIG | Lot Number: SFS52435 | COMPONENT Name | REQUESTED Concentration | ASSAY Concentration |
| Assay Date: 02/20/03 | Expiration Date: 02/20/06 | Document Number: 11354037 | Carbon Dioxide | 16-20 % | 18.1 ± 0.2 % |
| Customer: AIR LIQUIDE ORLANDO, FL | P.O. Number: STOCK | Item Number: | Oxygen | 22.5 % | 22.5 ± 0.3 % |
| | | | Nitrogen | Balance | Balance |

*Mixture is valid only to 150 psig

| | | | | | | | | |
|--|--|----------------|----------|----------|--------|-----------|------------|------|
| EPA Protocol Section No: 2.2, Procedure - G-1 | REFERENCE STANDARD EMPLOYED FOR ANALYSIS | | | | | | | |
| Analyst: Eric Barron | Concentration | Component | Balance | Cyl. No. | Batch | Exp. Date | Sample No. | Type |
| Approved by: Thuan Tran | 22.06 ± 0.21 % | Carbon Dioxide | Nitrogen | CC-55368 | 82745x | 10/02/03 | 95080107 | NTRM |
| | 22.41 ± 0.16 % | Oxygen | Nitrogen | CC 62855 | 82659x | 09/01/06 | 98080615 | NTRM |

| | | | |
|-----------------------|-----------------|-----------------------|-----------------|
| Carbon Dioxide | | Oxygen | |
| GAS ANALYZER EMPLOYED | | GAS ANALYZER EMPLOYED | |
| Manufacturer: | Hewlett Packard | Manufacturer: | Hewlett Packard |
| Model Number: | 5890A | Model Number: | 5890A |
| Serial Number: | 3336A54620 | Serial Number: | 3336A54620 |
| MPR Last Calibrated: | 01/24/03 | MPR Last Calibrated: | 02/12/03 |
| Analytical Principle: | FID & TCD | Analytical Principle: | FID & TCD |

ANALYSIS SUMMARY

| | 02/20/03 | 02/20/03 | 02/20/03 | Carbon Dioxide |
|--------------------------------|----------|----------|----------|----------------|
| | Triad 1 | Triad 2 | Triad 3 | Units |
| Zero | 0 | 0 | 0 | Area |
| Reference | 1296106 | 1298608 | 1296563 | Area |
| Candidate | 1062536 | 1063033 | 1063144 | Area |
| Result | 18.08 | 18.06 | 18.09 | % |
| Evaluation | VALID | VALID | VALID | |
| MEAN ANALYTICAL RESULT: | | | | 18.08 % |

| | 02/20/03 | 02/20/03 | 02/20/03 | Oxygen |
|--------------------------------|----------|----------|----------|---------|
| | Triad 1 | Triad 2 | Triad 3 | Units |
| Zero | 0 | 0 | 0 | Area |
| Reference | 1062146 | 1060467 | 1053120 | Area |
| Candidate | 1064073 | 1064989 | 1066159 | Area |
| Result | 22.45 | 22.51 | 22.47 | % |
| Evaluation | VALID | VALID | VALID | |
| MEAN ANALYTICAL RESULT: | | | | 22.48 % |

| | |
|--------------------------------|------------------------------------|
| Analyst: <i>[Signature]</i> | Approved by: <i>[Signature]</i> |
|--------------------------------|------------------------------------|



APEX INSTRUMENTS METHOD 5 PRE-TEST CONSOLE CALIBRATION
USING CALIBRATED CRITICAL ORIFICES
5-POINT ENGLISH UNITS

| Meter Console Information | |
|---------------------------|-------|
| Console Model Number | CAC 1 |
| Console Serial Number | |
| DGM Model Number | |
| DGM Serial Number | |

| Calibration Conditions | | | |
|--|------|-----------|-------|
| Date | Time | 24-Oct-05 | 5:45 |
| Barometric Pressure | | 29.6 | in Hg |
| Theoretical Critical Vacuum ¹ | | 14.0 | in Hg |
| Calibration Technician | | SCW | |

| Factors/Conversions | | |
|---------------------|--------|----------|
| Std Temp | 528 | °R |
| Std Press | 29.92 | in Hg |
| K ₁ | 17.647 | oR/in Hg |

¹For valid test results, the Actual Vacuum should be 1 to 2 in. Hg greater than the Theoretical Critical Vacuum shown above.

²The Critical Orifice Coefficient, K', must be entered in English units, (ft³•°R^{1/2})/(in.Hg•min).

| Calibration Data | | | | | | | | | | |
|------------------|---------------------|-------------------|-------------------|------------------------|----------------------|------------------|------------------------|---------------------|---------------------|------------------|
| Run Time | Metering Console | | | | | Critical Orifice | | | | |
| Elapsed | DGM Orifice ΔH | Volume Initial | Volume Final | Outlet Temp Initial | Outlet Temp Final | Serial Number | Coefficient | Amb Temp Initial | Amb Temp Final | Actual Vacuum |
| (θ) | (P _m) | (V _m) | (V _m) | (t _m) | (t _m) | | K' | (t _{amb}) | (t _{amb}) | |
| min | in H ₂ O | cubic feet | cubic feet | °F | °F | | see above ² | °F | °F | in Hg |
| 17.0 | 0.3 | 178.402 | 183.980 | 72 | 74 | 40 | 0.2430 | 68 | 68 | 17 |
| 11.0 | 0.7 | 184.528 | 189.820 | 74 | 75 | 48 | 0.3570 | 68 | 68 | 16 |
| 9.0 | 1.2 | 191.308 | 197.010 | 75 | 75 | 55 | 0.4710 | 68 | 68 | 16 |
| 7.0 | 1.9 | 197.602 | 203.305 | 75 | 75 | 63 | 0.6000 | 68 | 68 | 16 |
| 5.0 | 3.8 | 204.508 | 210.210 | 75 | 75 | 73 | 0.8410 | 68 | 68 | 16 |

| Results | | | | | | | | |
|------------------------|------------------------|-------------------------|-------------------------|--------------------|-----------|------------------------------|---------------------|-------------|
| Standardized Data | | | | Dry Gas Meter | | | | |
| Dry Gas Meter | | Critical Orifice | | Calibration Factor | | Flowrate | ΔH @ | |
| (V _{m(Std)}) | (Q _{m(Std)}) | (V _{cr(Std)}) | (Q _{cr(Std)}) | Value | Variation | Std & Corr | 0.75 SCFM | Variation |
| cubic feet | cfm | cubic feet | cfm | (Y) | (ΔY) | (Q _{m(Std)(Corr)}) | (ΔH@) | (ΔΔH@) |
| | | | | | | cfm | in H ₂ O | |
| 5.478 | 0.322 | 5.329 | 0.313 | 0.973 | 0.001 | 0.313 | 1.577 | -0.152 |
| 5.187 | 0.472 | 5.065 | 0.460 | 0.977 | 0.005 | 0.460 | 1.694 | -0.035 |
| 5.591 | 0.621 | 5.468 | 0.608 | 0.978 | 0.006 | 0.608 | 1.800 | 0.071 |
| 5.602 | 0.800 | 5.418 | 0.774 | 0.967 | -0.005 | 0.774 | 1.762 | 0.034 |
| 5.627 | 1.125 | 5.424 | 1.085 | 0.964 | -0.008 | 1.085 | 1.811 | 0.082 |
| | | | | 0.972 | Y Average | | 1.729 | ΔH@ Average |

Note: For Calibration Factor Y, the ratio of the reading of the calibration meter to the dry gas meter, acceptable tolerance of individual values from the average is ±0.02.

I certify that the above Dry Gas Meter was calibrated in accordance with USEPA Methods, CFR Title 40, Part 60, Appendix A-3, Method 5, 16.2.3

Signature Stephen C. Webb

Date 10-24-05

**APEX INSTRUMENTS METHOD 5 POST-TEST CONSOLE CALIBRATION
USING CALIBRATED CRITICAL ORIFICES
3-POINT ENGLISH UNITS**

| Meter Console Information | |
|---------------------------|-------|
| Console Model Number | CAC 1 |
| Console Serial Number | |
| DGM Model Number | |
| DGM Serial Number | |

| Calibration Conditions | | | |
|--|------|-----------|------------|
| Date | Time | 25-Nov-05 | 3:45:00 PM |
| Barometric Pressure | | 30.2 | in Hg |
| Theoretical Critical Vacuum ¹ | | 14.3 | in Hg |
| Calibration Technician | | | |

| Factors/Conversions | | |
|---------------------|--------|----------|
| Std Temp | 528 | °R |
| Std Press | 29.92 | in Hg |
| K ₁ | 17.647 | oR/in Hg |

¹For valid test results, the Actual Vacuum should be 1 to 2 in. Hg greater than the Theoretical Critical Vacuum shown above.

²The Critical Orifice Coefficient, K', must be entered in English units, (ft³°R^{1/2})/(in.Hg*min).

| Calibration Data | | | | | | | | | | |
|------------------|---------------------|-------------------|-------------------|------------------------|----------------------|------------------|------------------------|---------------------|---------------------|------------------|
| Run Time | Metering Console | | | | | Critical Orifice | | | | |
| Elapsed | DGM Orifice ΔH | Volume Initial | Volume Final | Outlet Temp Initial | Outlet Temp Final | Serial Number | Coefficient | Amb Temp Initial | Amb Temp Final | Actual Vacuum |
| (θ) | (P _m) | (V _m) | (V _m) | (t _m) | (t _m) | | K' | (t _{amb}) | (t _{amb}) | |
| min | in H ₂ O | cubic feet | cubic feet | °F | °F | | see above ² | °F | °F | in Hg |
| 10.0 | 1.9 | 593.071 | 601.126 | 76 | 78 | 63 | 0.6000 | 78 | 78 | 16 |
| 10.0 | 1.9 | 601.126 | 609.206 | 78 | 80 | 63 | 0.6000 | 78 | 78 | 16 |
| 10.0 | 1.9 | 609.206 | 617.286 | 80 | 81 | 63 | 0.6000 | 78 | 78 | 16 |

| Results | | | | | | | | |
|------------------------|------------------------|------------------------|------------------------|--------------------|-----------|------------------------------|---------------------|-------------|
| Standardized Data | | | | Dry Gas Meter | | | | |
| Dry Gas Meter | | Critical Orifice | | Calibration Factor | | Flowrate | ΔH @ | |
| (V _{m(Std)}) | (Q _{m(Std)}) | (V _{c(Std)}) | (Q _{c(Std)}) | Value | Variation | Std & Corr | 0.75 SCFM | Variation |
| cubic feet | cfm | cubic feet | cfm | (Y) | (ΔY) | (Q _{m(Std)(Corr)}) | (ΔH@) | (ΔΔH@) |
| | | | | | | cfm | in H ₂ O | |
| 8.039 | 0.804 | 7.820 | 0.782 | 0.973 | -0.001 | 0.782 | 1.754 | 0.006 |
| 8.034 | 0.803 | 7.820 | 0.782 | 0.973 | -0.001 | 0.782 | 1.747 | -0.001 |
| 8.012 | 0.801 | 7.820 | 0.782 | 0.976 | 0.002 | 0.782 | 1.742 | -0.005 |
| Pretest Gamma | | % Deviation | Enter Data | 0.974 | Y Average | | 1.748 | ΔH@ Average |

Note: For Calibration Factor Y, the ratio of the reading of the calibration meter to the dry gas meter, acceptable tolerance of individual values from the average is ±0.02.

I certify that the above Dry Gas Meter was calibrated in accordance with USEPA Methods, CFR Title 40, Part 60, Appendix A-3, Method 5, 16.2.3

Signature Stephens C. Wohl

Date 11-25-05

**DRY GAS METER
THERMOCOUPLE CALIBRATION DATA**

Frequency: Annual (two point) calibration.

Standard: ASTM Hg in glass thermometer, NBS ice point reference chamber, and potentiometer.

Reference: EPA Method 5, Section 2.1.8

Procedure: 1. Place ASTM thermometer and dry gas meter thermocouples (inlet and outlet) in hot water bath where the temperature is maintained between 100 F and 125 F. When the temperature has stabilized the thermocouple and ASTM thermometer are compared.

2. Remove ASTM thermometer and thermocouples from the warm bath, dry thoroughly, and place in a room with constant temperature and humidity. Allow a period of stabilization and record the readings.

Tolerance: +/- 5.4 F

| Therm ID No. | Location | Reference Temp. (F) | | Observed Temp. (F) | | Difference (F) | |
|--------------|--------------------|---------------------|------|--------------------|------|----------------|-----|
| | | 1 | 2 | 1 | 2 | 1 | 2 |
| 1 MB | Meter Box No. CAC1 | 117.0 | 62.0 | 117.0 | 62.0 | 0.0 | 0.0 |
| 2 MB | Meter Box No. CAC1 | 117.0 | 62.0 | 117.0 | 62.0 | 0.0 | 0.0 |
| 1 MB | Meter Box No. CAC2 | 117.0 | 62.0 | 116.0 | 62.0 | 1.0 | 0.0 |
| 2 MB | Meter Box No. CAC2 | 117.0 | 62.0 | 117.0 | 62.0 | 0.0 | 0.0 |
| 1 MB | Meter Box No. CAC3 | 117.0 | 62.0 | 117.0 | 62.0 | 0.0 | 0.0 |
| 2 MB | Meter Box No. CAC3 | 117.0 | 62.0 | 117.0 | 62.0 | 0.0 | 0.0 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

CALIBRATED BY: S. Webb
DATE: 01/03/05
DUE: 01/03/06

THERMOCOUPLE CALIBRATION DATA

STANDARD: National Bureau of Standards Thermocouple

REFERENCE: EPA Method 2.

FREQUENCY: Annualy

PROCEDURE: Thermocouple and NBS thermocouple are inserted into a thermostatically controlled oil bath. Temperatures are stabilized at approximately 230 & 340 F. Potentiometer and thermocouple readings are compared.

TOLERANCE: +/- 1.5% of actual absolute temperature.

REFERENCE TEMPERATURES

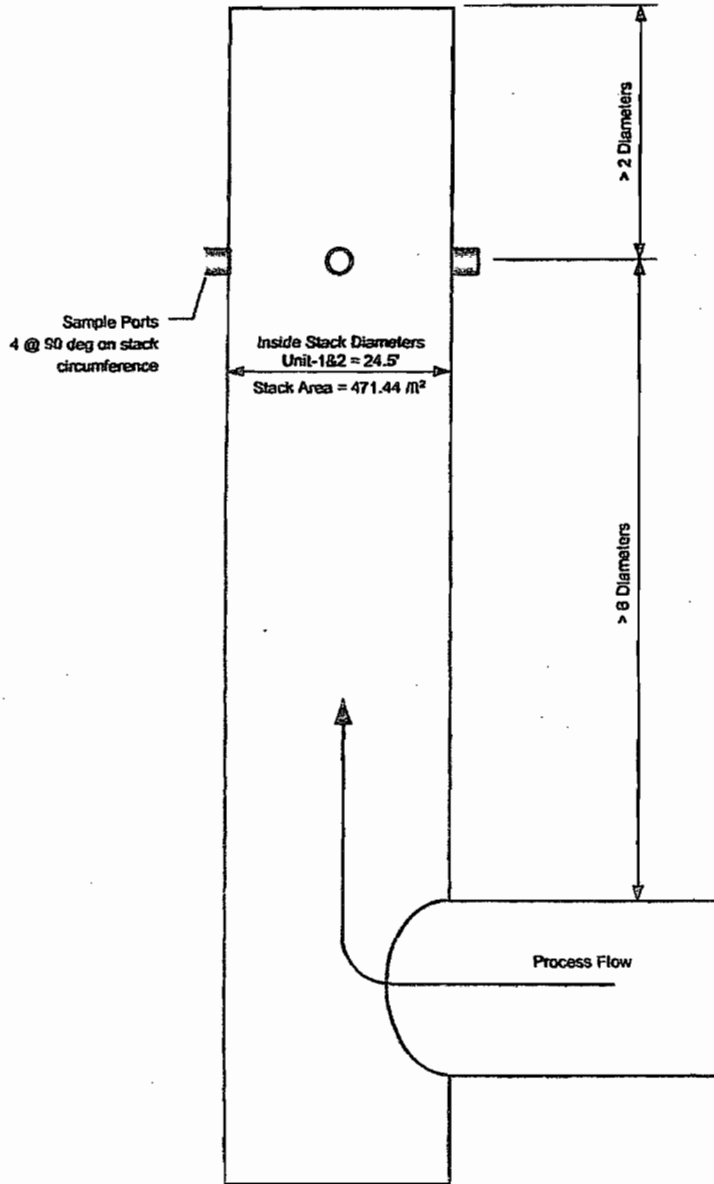
AMBIENT 62.0 MID 230.0 HIGH 350.0

| T/C. Number | Length (ft) | OBS TEMP (F) | DIFF (%) | OBS TEMP (F) | DIFF (%) | OBS TEMP (%) | DIFF (%) |
|-------------|-------------|--------------|----------|--------------|----------|--------------|----------|
| 4 | 4 | 62.0 | 0.00 | 231.0 | 0.14 | 349.0 | -0.12 |
| Inco 4 | 4 | 63.0 | 0.19 | 232.0 | 0.29 | 348.0 | -0.25 |
| 6 | 6 | 63.0 | 0.19 | 230.0 | 0.00 | 349.0 | -0.12 |
| 7 | 7 | 62.0 | 0.00 | 230.0 | 0.00 | 349.0 | -0.12 |
| 8 | 8 | 61.0 | -0.19 | 230.0 | 0.00 | 350.0 | 0.00 |
| 9 | 9 | 62.0 | 0.00 | 229.0 | -0.14 | 351.0 | 0.12 |
| 10 | 10 | 62.0 | 0.00 | 232.0 | 0.29 | 353.0 | 0.37 |
| 11G | 11 | 62.0 | 0.00 | 231.0 | 0.14 | 351.0 | 0.12 |
| Flow | 12 | 62.0 | 0.00 | 232.0 | 0.29 | 351.0 | 0.12 |
| 15 | 15 | 64.0 | 0.38 | 234.0 | 0.58 | 353.0 | 0.37 |

Calibrated by: S. C. Webb
 Date: 1/3/05
 Due: 1/3/06

APPENDIX 3
Figures

SAMPLE POINT PROFILE
Particulate, CEMS & FLOW



UNIT 1 Particulate

- 1. 84.0"
- 2. 42.9"
- 3. 12.9"

UNIT 1 CEMS

- 1. 1.3'
- 2. 4.0'
- 3. 6.5'

UNIT 1 Flow

- 1. 95.0"
- 2. 57.0"
- 3. 30.9"
- 4. 9.4"

UNIT 2 Particulate

- 1. 84.0"
- 2. 42.9"
- 3. 12.9"

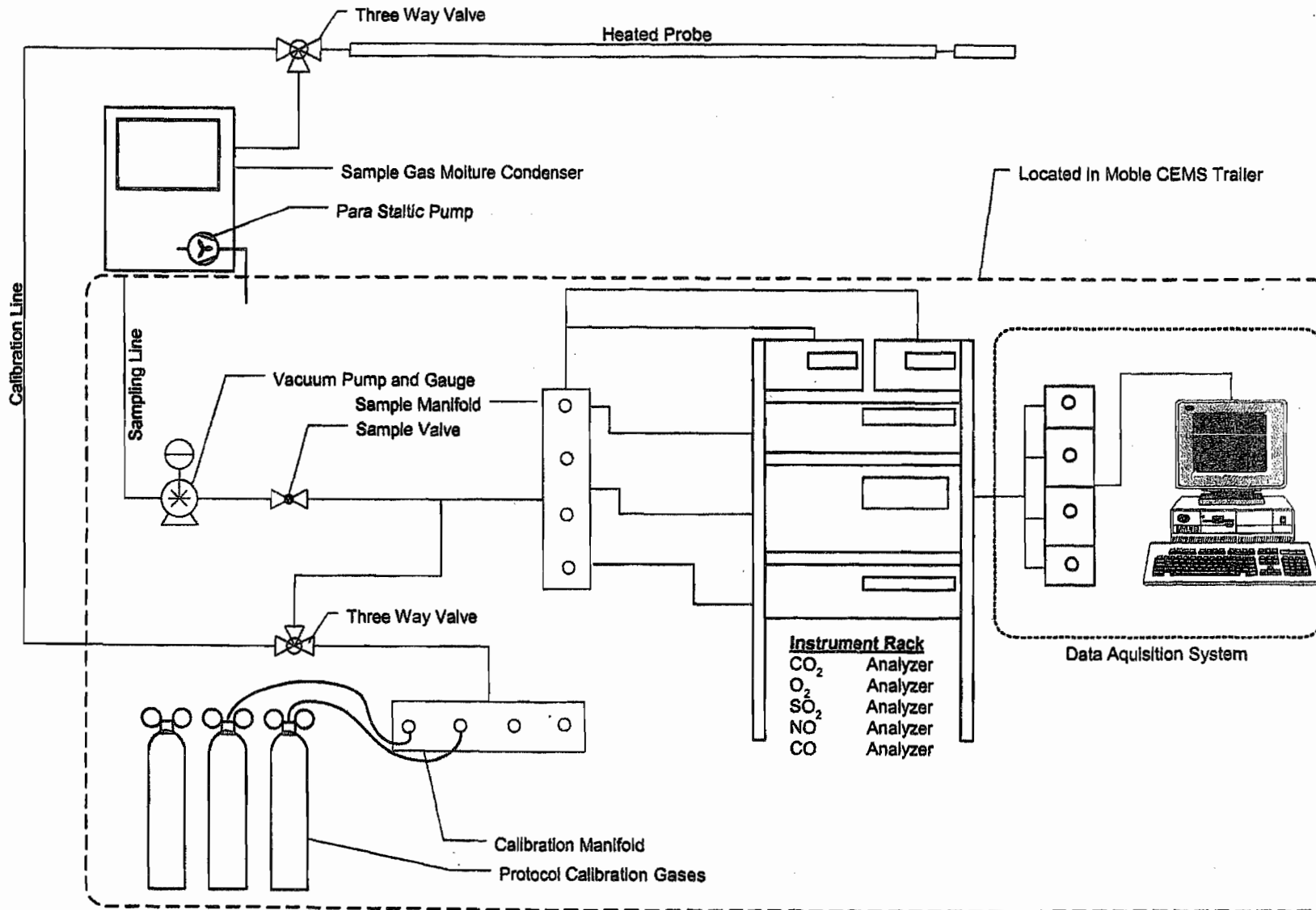
UNIT 2 CEMS

- 1. 1.3'
- 2. 4.0'
- 3. 6.5'

UNIT 2 Flow

- 1. 95.0"
- 2. 57.0"
- 3. 30.9"
- 4. 9.4"

| | | | |
|-----------------------------|----------------------|---|---|
| DRAWN BY R F Cobb | | TITLE St Johns River Power Park - SJRPP | Coastal Air Consulting, Inc. 1531 Wyngate Drive, Deland FL (386) 943-9241 Fax (386) 943 9212 |
| DATE 12-05-02 | SCALE NONE | DESCRIPTION Unit I & II Stack and Sample Port Configuration | |



DRAWN BY
R F Cobb

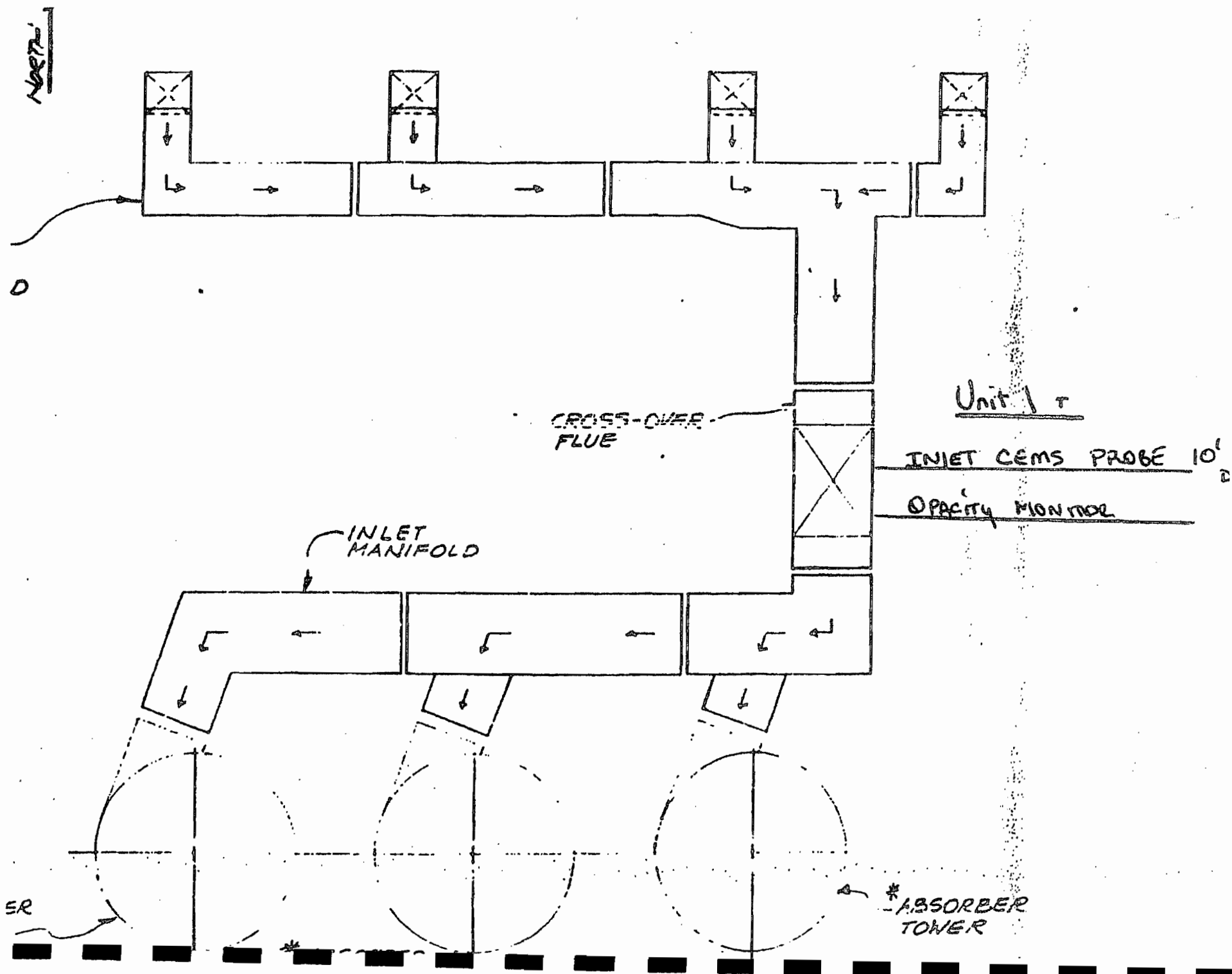
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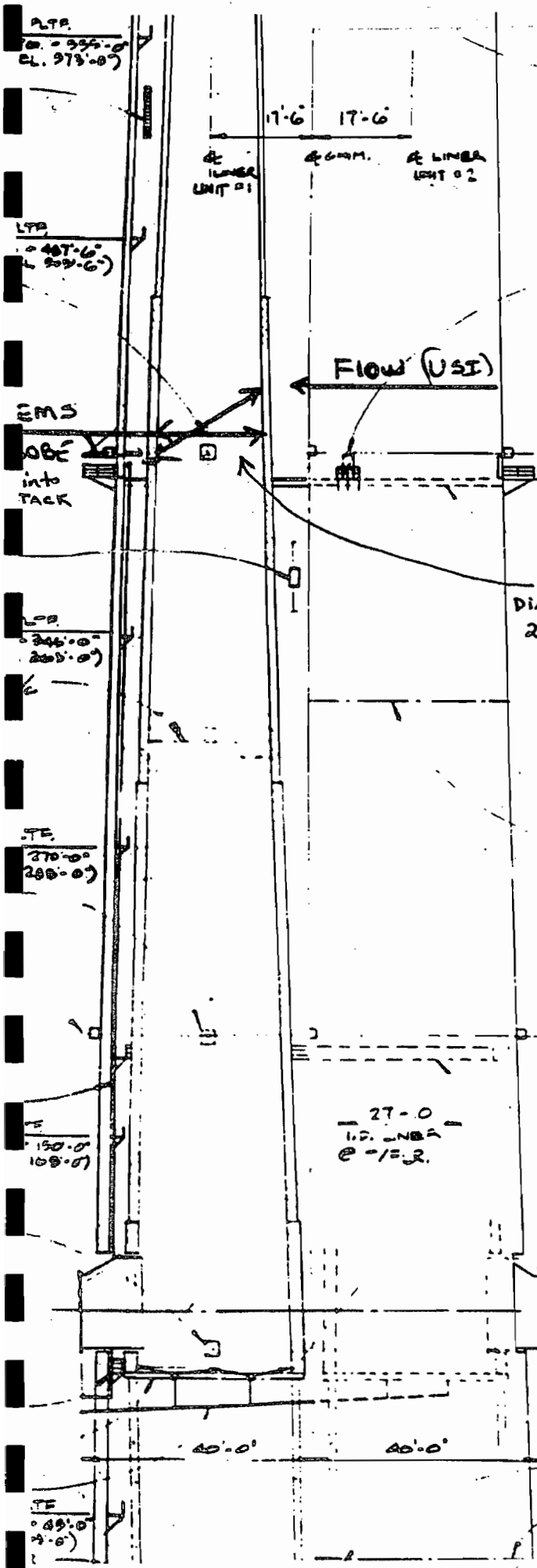
TITLE
EPA Instrumental Sample Train

DESCRIPTION
Sample Train Schematic

SCALE
NONE

Coastal Air Consulting, Inc
1531 Wyngate Drive, Deland FL
(386) 943-9241 Fax (386) 943-9212





4 HANDRAILS
 4 LPS TOP CIRCUMFERENTIAL
 CABLE + 623'-0"
 (PLANT EL. 641'-0")

W/RAINING COIL
 (TYP. EA. PEDESTAL)
 270°
 255°
 ACCESS DOOR
 2 @ 80°
 (TYP. EA. PEDESTAL)

2-2'-6" H. x 17'-0" d. ACCESS DOORS
 4-REGO

8'-0" W x 12'-0" EXT. PLTP #19
 4-REGO
 T/GRTA + 423'-0"
 (PLANT EL. 441'-0")

T/FO

PLTF MK3 + 423'-0"
 (PLANT EL. 441'-0")

FULL INT. SAMPLE P.S.P. #13
 T/GRTA + 423'-0"
 (PLANT EL. 441'-0")

Diameter
 24'6"

- A) Sampling Location To
 STACK EXIT = 218'
- B) BREECHING Location To
 Sampling Location = 303'

OBST. LIGHT
 4 @ 90°

INT. ELEVATOR
 INT. LADDER

294.5°

INSTRUMENT
 AIR PIPE

270°

255°

245.5°

ACCESS DOOR
 2 @ 80°

2 LPS MID. CIRCUMFERENTIAL
 CABLE + 312'-0"
 (PLANT EL. 320'-0")

PLTF MK2 + 209'-0"
 (PLANT EL. 221'-0")

3'-0" x 3'-0" INT. PLTP #12
 T/GRTA + 209'-0"
 (PLANT EL. 221'-0")

PLATFORM PL
 T/GRTA + 423'-0"
 (PLANT EL. 441'-0")

SAMPLE

2 BREECHING JOINT
 + 120'-5"
 (PLANT EL. 138'-5")



T/PEDESTAL + 95'-9"
 (PLANT EL. 117'-9")

2-2" N.S. 16-1" -
 CONST. DIMEN.
 SIDE + 0'-0"
 (PLANT EL. 18'-0")



2.1 OR 2.2

APPENDIX 4
Sample Calculations

**SAMPLE EQUATIONS
FOR CEMS RELATIVE ACCURACY TEST AUDITS**

CALCULATIONS FOR FLUE GAS VOLUME AND MOISTURE

| Time | Dry Gas | Pitot | Orifice | Dry Gas | | Flue Gas | Stack |
|------|-----------------------|------------------------------------|------------------------------------|----------------|-----------------|--|----------------|
| | Meter Ft ³ | ΔP In. H ₂ O | ΔH In. H ₂ O | Temp. °F In | Temp. °F Out | Static Pressure In. H ₂ O | |
| T | V _m | Δp | ΔH | TMI | TMO | P _g | t _s |

1. P_{bar} = Barometric Pressure (in. Hg)

2. TT = Net Sampling Time (minutes)

3. V_m = V_m Final - V_m Initial = Sample Gas Volume (Ft³)

4. T_m = Average Dry Gas Temperature at Meter (°F)

$$T_m = \frac{\text{Avg. TMI} + \text{Avg. TMO}}{2}$$

5. Δp = Velocity head of stack gas (in. H₂O)

6. ΔH = Average Orifice Pressure Drop (in. H₂O)

7. Volume of dry gas sampled at standard conditions^a (DSCF)

$$V_{m(std)} = \frac{(17.64)(V_m)(Y) \left(P_{bar} + \frac{\Delta H}{13.6} \right)}{(T_m + 460)}$$

8. V_{lc} = Total Water Collected = gm H₂O Silica gel + ml Imp. H₂O = ml

9. Volume of water vapor at standard conditions^b (SCF)

$$V_{w(std)} = 0.0471(V_{lc}) = SCF$$

10. Percent moisture in flue gas

$$\%M = \frac{100(V_{w(std)})}{V_{m(std)} + V_{w(std)}}$$

11. Mole fraction of water vapor in flue gas

$$B_{ws} = \frac{\%M}{100}$$

12. Molecular Weight of dry flue gas

$$M_d = 0.44(\%CO_2) + 0.32(\%O_2) + 0.28(\%N_2 + \%CO)$$

13. Molecular weight of wet flue gas

$$M_s = M_d(1 - B_{ws}) + 18(B_{ws})$$

14. A = Cross-sectional area of stack (Ft²)

$$\frac{\pi r^2}{144}$$

15. P_s = Flue gas pressure (in, Hg)

$$P_s = P_{bar} + P_g$$

NOTE:
$$P_g(Hg) = \frac{P_g(in.H_2O)}{13.6}$$

16. T_s = Absolute stack temperature (°R)

$$T_s = 460 + t_s$$

17. Flue velocity at stack conditions (FT/SEC)

$$V_s = (K_p)(C_p) \left[(\sqrt{\Delta p})_{avg} \right] \sqrt{\frac{T_s(avg)}{P_s * M_s}}$$

C_p = pitot tube coefficient

K_p = pitot tube constant = 85.49ft/sec

18. Flue gas volumetric flow rate at standard conditions^b (SCFM)

$$Q_s = (V_s)(A) \left(\frac{528}{T_s(\text{avg.})} \right) \left(\frac{P_s}{29.92} \right) (60)$$

19. Flue gas volumetric flow rate at standard conditions^c (DSCFM)

$$Q_{sd} = (1 - B_{ws})(V_s)(A) \left(\frac{528}{T_s(\text{avg.})} \right) \left(\frac{P_s}{29.92} \right) (60)$$

20. Flue gas volumetric flow rate at stack conditions (ACFM)

$$Q_a = (V_s)(A)(60)$$

NOTES:

^aDry standard cubic feet at 68°F, 29.92 in. Hg

^bStandard conditions at 68°F, 29.92 in. Hg

^cDry standard cubic feet per minute at 68°F, 29.92 in. Hg

F-FACTOR DETERMINATION

THE WET F-FACTOR (F_w):

Includes all components of combustion

$$F_w = \frac{10^6 \text{ Btu} / \text{mmBtu} [5.57(\%H) + 1.53(\%C) + 0.57(\%S) + 0.14(\%N) - 0.46(\%O_2) + 0.21(\%H_2O)]}{GCV_{wet}}$$

THE DRY F-FACTOR (F_d):

Includes all components of combustion less water

$$F_d = \frac{10^6 \text{ Btu} / \text{mmBtu} [3.64(\%H) + 1.53(\%C) + 0.57(\%S) + 0.14(\%N) - 0.46(\%O_2)]}{GCV_{dry}}$$

THE CARBON F-FACTOR (F_c):

Includes only Carbon Dioxide

$$F_c = \frac{10^6 \text{ Btu} / \text{mmBtu} [0.321(\%C)]}{GCV_{dry}}$$

References for the above equations (i.e. %H, %C, %N, %S, %O₂) can be found in 40 CFR Part 60, Appendix A, Method 19.

LBS/MMBTU CALCULATIONS USING THE F-FACTOR

1. EMISSION RATE $E(\text{lb}/\text{mmbtu})$, O_2 based

$$E(\text{lb}/\text{mmbtu}) = C \times F_d \left(\frac{20.9}{20.9 - \%O_2} \right)$$

Where:

$C(\text{lb}/\text{dscf})$ = Pollutant concentration (ppm) x conversion factor.

Conversion Factors:

$$\text{NO}_x = 1.194 \times 10^{-7}$$

$$\text{SO}_2 = 1.660 \times 10^{-7}$$

$$\text{CO} = 7.274 \times 10^{-8}$$

$$\text{C}_3\text{H}_8 = 1.145 \times 10^{-7}$$

$F_d(\text{dscf}/\text{mmbtu})$ = "F" Factor for fuel type, (Ref. EPA Method 19)

$$F_d(\text{Coal}) = 9780$$

$$F_d(\text{Gas}) = 8710$$

$$F_d(\text{Oil}) = 9190$$

2. EMISSION RATE $E(\text{lb}/\text{mmbtu})$, CO_2 based

$$E(\text{lb}/\text{mmbtu}) = C \times F_c \left(\frac{100}{\%CO_2} \right)$$

Where:

$C(\text{lb}/\text{dscf})$ = Pollutant concentration (ppm) x conversion factor.

Conversion Factors:

$$\text{NO}_x = 1.194 \times 10^{-7}$$

$$\text{SO}_2 = 1.660 \times 10^{-7}$$

$$\text{CO} = 7.274 \times 10^{-8}$$

$$\text{C}_3\text{H}_8 = 1.145 \times 10^{-7}$$

$F_c(\text{dscf}/\text{mmbtu})$ = "F" Factor for fuel type, (Ref. EPA Method 19)

$$F_c(\text{Coal}) = 1800$$

$$F_c(\text{Gas}) = 1040$$

$$F_d (\text{Oil}) = 1420$$

CALCULATION FOR GAS CONCENTRATION

GAS CONCENTRATION (C_{gas})

$$C_{\text{gas}} = (\bar{C} - C_0) \left(\frac{C_{\text{ma}}}{C_m - C_0} \right)$$

- C_{gas} = Effluent gas concentration, ppm
 \bar{C} = Average gas concentration indicated by gas analyzer, dry basis, ppm
 C_0 = Average of initial and final system calibration bias check responses for the zero gas, ppm
 C_m = Average of initial and final system calibration bias check responses for the upscale calibration gas, ppm
 C_{ma} = Actual concentration of the upscale calibration gas, ppm

GAS CONCENTRATION @ 15% O₂ ($C_{\text{gas}} @ 15\% \text{ O}_2$)

$$C_{\text{gas}} @ 15\% \text{ O}_2 = C_{\text{gas}} * ((20.9-15)/(20.9-\% \text{ O}_2))$$

GAS CONCENTRATION @ 7% O₂ ($C_{\text{gas}} @ 7\% \text{ O}_2$)

$$C_{\text{gas}} @ 7\% \text{ O}_2 = C_{\text{gas}} * ((20.9-7)/(20.9-\% \text{ O}_2))$$

CALCULATION OF RELATIVE ACCURACY

ARITHMETIC MEAN (OF THE DIFFERENCE , {d}, OF A DATA SET)

$$\bar{d} = \frac{1}{n} \sum_{i=1}^n d_i$$

Where n = Number of data points.

ALGEBRAIC SUM (OF THE INDIVIDUAL DIFFERENCES, {d_i})

$$\sum_{i=1}^n d_i$$

STANDARD DEVIATION, S_d

$$S_d = \sqrt{\frac{\sum_{i=1}^n d_i^2 - \frac{\left(\sum_{i=1}^n d_i\right)^2}{n}}{n-1}}$$

CONFIDENCE COEFFICIENT, CC

$$CC = t_{0.975} \frac{S_d}{\sqrt{n}}$$

For 9 tests $t_{0.975} = 2.306$

For 10 tests $t_{0.975} = 2.262$

For 11 tests $t_{0.975} = 2.228$

For 12 tests $t_{0.975} = 2.201$

RELATIVE ACCURACY, RA

$$RA = \frac{|\bar{d}| + |CC|}{RM} \times 100$$

APPENDIX 5
Lab Analysis

| | |
|---------------------|------------------------|
| LIMS Label: | F051110NGKOLPP04 |
| Lab ID: | 05-1897 |
| Sample Matrix: | Coal / Pet Coke |
| Sample Description: | Unit 1 SJRPP Composite |
| Sample Date: | 11/10/2005 |
| Sample Time: | 9:00:00 |

137047

| Moisture | % | | Analyst | Analysis Date | Analysis Time |
|-----------------------|------|--|---------|---------------|---------------|
| Air Dry Loss | 8.41 | For samples without Air-Dry Loss result, enter zero (0). | jakeb | 11/15/05 | 9:00:00 |
| Residual 60 Mesh Loss | 3.40 | | jakeb | 11/22/05 | 8:30:00 |

| Results | Weight % | Dry, Ash-Free | | | With moisture | | Without Moisture | | Analyst | Analysis Date | Analysis Time |
|-------------------------|----------|---------------|--------|--------|---------------|-------------|--------------------------|----------|----------|---------------|---------------|
| | | As-Determined | Dry | (MAF) | As-Received | As-Received | As-Received | | | | |
| Total Moisture | ----- | ----- | ----- | ----- | ----- | 11.52 | jakeb | 11/22/05 | 8:30:00 | | |
| Carbon | 78.63 | 81.40 | 87.24 | ----- | ----- | 72.02 | danm | 11/18/05 | 15:00:00 | | |
| Hydrogen | 4.80 | 4.57 | 4.90 | 5.33 | ----- | 4.04 | danm | 11/18/05 | 15:00:00 | | |
| Nitrogen | 1.60 | 1.65 | 1.77 | ----- | ----- | 1.46 | danm | 11/18/05 | 15:00:00 | | |
| Sulfur | 2.22 | 2.30 | 2.46 | ----- | ----- | 2.03 | carolynj | 11/16/05 | 12:00:00 | | |
| Ash | 6.47 | 6.70 | ----- | ----- | ----- | 5.93 | jakeb | 11/22/05 | 8:30:00 | | |
| Oxygen (% Difference) | 6.28 | 3.38 | 3.62 | 13.23 | ----- | 2.99 | danm | 11/18/05 | 15:00:00 | | |
| Total % | 100.00 | 100.00 | 106.70 | 100.00 | ----- | 88.48 | Calculated - Not in LIMS | | | | |
| Total Moisture weight % | ----- | ----- | ----- | -11.52 | ----- | 11.52 | Calculated - Not in LIMS | | | | |
| Moisture Weight % | 3.40 | ----- | ----- | ----- | ----- | 100.00 | Calculated - Not in LIMS | | | | |

| Calorific Value | | | | | | Analyst | Analysis Date | Analysis Time |
|---------------------------|----------|---------|----------|-------|---------|--------------------------------|---------------|---------------|
| | | | | | | | | |
| Net BTU/lb | 12891.9 | 13345.7 | 14304.34 | ----- | 11807.7 | Calculated - Entered into LIMS | | |
| Gross BTU/lb (no S corr.) | 13438.80 | 13911.8 | 14911.15 | ----- | 12308.6 | carolynj | 11/16/05 | 12:00:00 |

| Other Analyses | | | | | | Analyst | Date | Time |
|-------------------------|-------|-------|-------|-------|-------|--------------|----------|---------|
| | | | | | | | | |
| Volatile % UnCalibrated | 29.32 | 30.35 | 32.53 | ----- | 26.85 | Not Reported | | |
| Volatile % Calibrated | 27.36 | 28.32 | 30.35 | ----- | 25.06 | jakeb | 11/22/05 | 8:30:00 |
| Chlorine | | 0.00 | 0.00 | ----- | 0.00 | | | |
| Fluorine | | 0.00 | 0.00 | ----- | 0.00 | | | |

| | |
|---------------------|------------------------|
| LIMS Label: | F051109NGKOLPP07 |
| Lab ID: | 05-1900 |
| Sample Matrix: | Coal / Pet Coke |
| Sample Description: | Unit 2 SJRPP Composite |
| Sample Date: | 11/9/2005 |
| Sample Time: | 09:00:00 |

| 137050 | | | Analyst | Analysis Date | Analysis Time |
|-----------------------|------|--|---------|---------------|---------------|
| Moisture | % | | | | |
| Air Dry Loss | 9.45 | For samples without Air-Dry Loss result, enter zero (0). | jakeb | 11/09/05 | 9:00:00 |
| Residual 60 Mesh Loss | 2.73 | | jakeb | 11/22/05 | 8:30:00 |

| Results | Weight % | Dry, Ash-Free With moisture | | | Without Moisture | | | |
|-------------------------|----------|-----------------------------|--------|--------|------------------|--------------------------|----------|---------------|
| | | As-Determined | Dry | (MAF) | As-Received | As-Received | Analyst | Analysis Date |
| Total Moisture | ----- | ----- | ----- | ----- | 11.92 | jakeb | 11/22/05 | 8:30:00 |
| Carbon | 77.91 | 80.09 | 87.69 | ----- | 70.55 | danm | 11/18/05 | 15:00:00 |
| Hydrogen | 4.74 | 4.56 | 4.99 | 5.35 | 4.02 | danm | 11/18/05 | 15:00:00 |
| Nitrogen | 1.60 | 1.64 | 1.80 | ----- | 1.44 | danm | 11/18/05 | 15:00:00 |
| Sulfur | 1.98 | 2.04 | 2.23 | ----- | 1.79 | carolynj | 11/18/05 | 13:00:00 |
| Ash | 8.42 | 8.66 | ----- | ----- | 7.63 | jakeb | 11/22/05 | 8:30:00 |
| Oxygen (% Difference) | 5.35 | 3.01 | 3.29 | 13.24 | 2.65 | danm | 11/18/05 | 15:00:00 |
| Total % | 100.00 | 100.00 | 108.66 | 100.00 | 88.08 | Calculated - Not in LIMS | | |
| Total Moisture weight % | ----- | ----- | ----- | -11.92 | 11.92 | Calculated - Not in LIMS | | |
| Moisture Weight % | 2.73 | ----- | ----- | ----- | 100.00 | Calculated - Not in LIMS | | |

| Calorific Value | | | | | | Analyst | Analysis Date | Analysis Time |
|---------------------------|--------------------------|----------|----------|----------|---------|--------------------------------|---------------|---------------|
| | Gross BTU/lb (corrected) | 13223.80 | 13594.4 | 14883.44 | ----- | 11974.2 | carolynj | 11/18/05 |
| Net BTU/lb | 12727.9 | 13084.6 | 14325.29 | ----- | 11525.1 | Calculated - Entered into LIMS | | |
| Gross BTU/lb (no S corr.) | 13270.80 | 13642.7 | 14936.34 | ----- | 12016.7 | carolynj | 11/18/05 | 13:00:00 |

| Other Analyses | | | | | | Analyst | Date | Time |
|-------------------------|--------------|-------|-------|-------|-------|--------------|----------|----------|
| | Fixed Carbon | 59.51 | 61.18 | 66.98 | ----- | 53.89 | jakeb | 11/22/05 |
| Volatile % UnCalibrated | 30.16 | 31.01 | 33.95 | ----- | 27.31 | Not Reported | | |
| Volatile % Calibrated | 28.54 | 29.34 | 32.12 | ----- | 25.84 | jakeb | 11/22/05 | 8:30:00 |
| Chlorine | | 0.00 | 0.00 | ----- | 0.00 | | | |
| Fluorine | | 0.00 | 0.00 | ----- | 0.00 | | | |

APPENDIX 6
Plant Data

UNIT 1

Average Values Report
Generated: 11/10/2005 10:39

Company: St. Johns River Power Park U#1
Plant: 11201 New Berlin Road
City/St: Jacksonville, FL 32226
Source: Unit 1

Period Start: 11/10/2005 10:15
Period End: 11/10/2005 10:36
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Run 1

| Period Start: | Average 1outCO_C ppm | Average 1outCO_MM #/M | Average 1outCO2_C % | Average 1outNOX_MM #/M | Average 1outSO2_C ppm | Average 1outSO2_MM #/M | Average 1Stk_kscfh kscfh | Average 1Unit_Load MW |
|-----------------------|----------------------------|-----------------------------|---------------------------|------------------------------|-----------------------------|------------------------------|--------------------------------|-----------------------------|
| 11/10/2005 10:15 | 56.7 | 0.071 | 11.71 | 0.391 | 176.6 | 0.450 | 100818 | 654.0 |
| 11/10/2005 10:16 | 70.7 | 0.072 | 11.74 | 0.390 | 177.5 | 0.453 | 100818 | 651.2 |
| 11/10/2005 10:17 | 73.6 | 0.083 | 11.81 | 0.385 | 176.8 | 0.448 | 100674 | 651.1 |
| 11/10/2005 10:18 | 114.7 | 0.125 | 11.85 | 0.378 | 175.8 | 0.443 | 100194 | 651.7 |
| 11/10/2005 10:19 | 150.6 | 0.164 | 11.89 | 0.374 | 178.1 | 0.448 | 100218 | 651.8 |
| 11/10/2005 10:20 | 145.6 | 0.164 | 11.96 | 0.368 | 178.5 | 0.447 | 100230 | 651.7 |
| 11/10/2005 10:21 | 156.7 | 0.169 | 11.97 | 0.367 | 178.4 | 0.446 | 99978 | 654.6 |
| 11/10/2005 10:22 | 144.6 | 0.158 | 11.96 | 0.367 | 179.4 | 0.448 | 99294 | 662.0 |
| 11/10/2005 10:23 | 141.5 | 0.154 | 12.00 | 0.365 | 182.2 | 0.454 | 99294 | 665.9 |
| 11/10/2005 10:24 | 145.6 | 0.159 | 12.01 | 0.366 | 181.4 | 0.451 | 99282 | 666.9 |
| 11/10/2005 10:25 | 122.7 | 0.133 | 11.94 | 0.367 | 182.1 | 0.455 | 99528 | 668.8 |
| 11/10/2005 10:26 | 106.0 | 0.117 | 11.88 | 0.375 | 181.4 | 0.456 | 99540 | 669.9 |
| 11/10/2005 10:27 | 86.6 | 0.096 | 11.78 | 0.383 | 179.2 | 0.455 | 99546 | 669.2 |
| 11/10/2005 10:28 | 81.9 | 0.091 | 11.80 | 0.385 | 178.9 | 0.453 | 100002 | 668.3 |
| 11/10/2005 10:29 | 59.7 | 0.072 | 11.82 | 0.384 | 181.3 | 0.458 | 101286 | 666.0 |
| 11/10/2005 10:30 | 50.3 | 0.056 | 11.81 | 0.387 | 179.8 | 0.455 | 101274 | 660.4 |
| 11/10/2005 10:31 | 54.3 | 0.062 | 11.77 | 0.390 | 178.9 | 0.454 | 101274 | 652.0 |
| 11/10/2005 10:32 | 59.7 | 0.066 | 11.84 | 0.385 | 177.3 | 0.448 | 101328 | 648.6 |
| 11/10/2005 10:33 | 71.1 | 0.076 | 11.90 | 0.380 | 177.7 | 0.447 | 101352 | 651.3 |
| 11/10/2005 10:34 | 97.4 | 0.106 | 11.93 | 0.374 | 180.4 | 0.452 | 101352 | 653.5 |
| 11/10/2005 10:35 | 109.3 | 0.120 | 11.97 | 0.372 | 182.3 | 0.455 | 101118 | 653.4 |
| 11/10/2005 10:36 | 143.3 | 0.155 | 12.03 | 0.367 | 183.4 | 0.456 | 100470 | 657.9 |
| Daily Average* | 101.9 | 0.112 | 11.88 | 0.377 | 179.4 | 0.451 | 100403 | 658.2 |
| Maximum* | 156.7 | 0.169 | 12.03 | 0.391 | 183.4 | 0.458 | 101352 | 669.9 |
| Minimum* | 50.3 | 0.056 | 11.71 | 0.365 | 175.8 | 0.443 | 99282 | 648.6 |

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

Average Values Report
Generated: 11/10/2005 12:29

Company: St. Johns River Power Park U#1
Plant: 11201 New Berlin Road
City/St: Jacksonville, FL 32226
Source: Unit 1

Period Start: 11/10/2005 10:47
Period End: 11/10/2005 11:08
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Run 2

| Period Start: | Average 1outCO_C ppm | Average 1outCO_MM #/M | Average 1outCO2_C % | Average 1outNOX_MM #/M | Average 1outSO2_C ppm | Average 1outSO2_MM #/M | Average 1Stk_kscfh kscfh | Average 1Unit_Load MW |
|-----------------------|----------------------------|-----------------------------|---------------------------|------------------------------|-----------------------------|------------------------------|--------------------------------|-----------------------------|
| 11/10/2005 10:47 | 66.6 | 0.074 | 11.83 | 0.387 | 176.7 | 0.446 | 100530 | 651.0 |
| 11/10/2005 10:48 | 90.2 | 0.095 | 11.85 | 0.383 | 175.8 | 0.444 | 100518 | 649.9 |
| 11/10/2005 10:49 | 98.0 | 0.109 | 11.91 | 0.377 | 177.0 | 0.444 | 100518 | 650.1 |
| 11/10/2005 10:50 | 101.1 | 0.111 | 11.96 | 0.375 | 176.9 | 0.442 | 100572 | 654.6 |
| 11/10/2005 10:51 | 142.4 | 0.154 | 12.08 | 0.364 | 178.2 | 0.441 | 100572 | 660.0 |
| 11/10/2005 10:52 | 143.3 | 0.155 | 12.06 | 0.363 | 178.9 | 0.443 | 100110 | 662.6 |
| 11/10/2005 10:53 | 145.1 | 0.156 | 12.04 | 0.364 | 179.6 | 0.446 | 99594 | 662.7 |
| 11/10/2005 10:54 | 154.3 | 0.167 | 12.04 | 0.364 | 177.9 | 0.442 | 99606 | 662.0 |
| 11/10/2005 10:55 | 150.5 | 0.164 | 12.02 | 0.366 | 177.2 | 0.440 | 99606 | 664.5 |
| 11/10/2005 10:56 | 126.7 | 0.138 | 11.99 | 0.368 | 178.5 | 0.445 | 99570 | 668.7 |
| 11/10/2005 10:57 | 129.7 | 0.142 | 11.99 | 0.368 | 178.0 | 0.443 | 99582 | 669.4 |
| 11/10/2005 10:58 | 104.5 | 0.116 | 11.96 | 0.373 | 176.9 | 0.442 | 99606 | 669.4 |
| 11/10/2005 10:59 | 101.4 | 0.111 | 11.95 | 0.376 | 178.2 | 0.446 | 99594 | 668.6 |
| 11/10/2005 11:00 | 74.1 | 0.082 | 11.83 | 0.381 | 174.5 | 0.441 | 99606 | 667.6 |
| 11/10/2005 11:01 | 74.1 | 0.082 | 11.83 | 0.379 | 172.6 | 0.436 | 99498 | 666.0 |
| 11/10/2005 11:02 | 95.7 | 0.106 | 11.84 | 0.376 | 172.6 | 0.436 | 99414 | 663.5 |
| 11/10/2005 11:03 | 86.8 | 0.097 | 11.87 | 0.378 | 173.0 | 0.436 | 99396 | 657.9 |
| 11/10/2005 11:04 | 79.5 | 0.088 | 11.81 | 0.380 | 171.8 | 0.435 | 99408 | 654.3 |
| 11/10/2005 11:05 | 83.0 | 0.091 | 11.84 | 0.376 | 173.0 | 0.437 | 99252 | 652.8 |
| 11/10/2005 11:06 | 89.8 | 0.099 | 11.86 | 0.374 | 172.8 | 0.436 | 98796 | 654.6 |
| 11/10/2005 11:07 | 118.8 | 0.130 | 11.93 | 0.367 | 174.6 | 0.437 | 98760 | 654.4 |
| 11/10/2005 11:08 | 149.6 | 0.163 | 12.01 | 0.363 | 175.5 | 0.437 | 98664 | 656.7 |
| Daily Average* | 109.3 | 0.120 | 11.93 | 0.373 | 175.9 | 0.441 | 99671 | 660.1 |
| Maximum* | 154.3 | 0.167 | 12.08 | 0.387 | 179.6 | 0.446 | 100572 | 669.4 |
| 11/10/2005 10:54 | 10:54 | 10:54 | 10:51 | 10:47 | 10:53 | 10:59 | 10:51 | 10:58 |
| Minimum* | 66.6 | 0.074 | 11.81 | 0.363 | 171.8 | 0.435 | 98664 | 649.9 |
| 11/10/2005 10:47 | 10:47 | 10:47 | 11:04 | 11:08 | 11:04 | 11:04 | 11:08 | 10:48 |

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

Average Values Report
 Generated: 11/10/2005 11:46

Company: St. Johns River Power Park U#1
 Plant: 11201 New Berlin Road
 City/St: Jacksonville, FL 32226
 Source: Unit 1

Period Start: 11/10/2005 11:21
 Period End: 11/10/2005 11:42
 Validation Type: 1/1 min
 Averaging Period: 1 min
 Type: Block Avg

Run 3

| Period Start: | Average 1outCO_C ppm | Average 1outCO_MM #/M | Average 1outCO2_C % | Average 1outNOX_MM #/M | Average 1outSO2_C ppm | Average 1outSO2_MM #/M | Average 1Stk_kscfh kscfh | Average 1Unit_Load MW |
|-----------------------|----------------------------|-----------------------------|---------------------------|------------------------------|-----------------------------|------------------------------|--------------------------------|-----------------------------|
| 11/10/2005 11:21 | 97.3 | 0.107 | 11.93 | 0.368 | 165.1 | 0.414 | 99636 | 651.8 |
| 11/10/2005 11:22 | 109.7 | 0.120 | 11.94 | 0.367 | 165.9 | 0.415 | 99558 | 654.0 |
| 11/10/2005 11:23 | 157.4 | 0.171 | 12.03 | 0.363 | 168.9 | 0.420 | 99264 | 659.6 |
| 11/10/2005 11:24 | 158.8 | 0.173 | 12.04 | 0.362 | 169.6 | 0.421 | 99294 | 661.1 |
| 11/10/2005 11:25 | 141.7 | 0.155 | 11.98 | 0.363 | 169.5 | 0.423 | 99150 | 662.0 |
| 11/10/2005 11:26 | 127.4 | 0.139 | 12.02 | 0.362 | 169.0 | 0.420 | 98712 | 662.5 |
| 11/10/2005 11:27 | 160.9 | 0.174 | 12.05 | 0.362 | 167.9 | 0.417 | 98694 | 662.1 |
| 11/10/2005 11:28 | 154.3 | 0.168 | 12.02 | 0.365 | 168.4 | 0.419 | 98706 | 664.4 |
| 11/10/2005 11:29 | 166.4 | 0.181 | 12.02 | 0.363 | 170.4 | 0.424 | 98748 | 667.2 |
| 11/10/2005 11:30 | 153.2 | 0.171 | 11.99 | 0.366 | 169.4 | 0.422 | 98802 | 668.3 |
| 11/10/2005 11:31 | 108.1 | 0.124 | 11.92 | 0.369 | 167.6 | 0.420 | 98826 | 669.1 |
| 11/10/2005 11:32 | 101.2 | 0.112 | 11.85 | 0.376 | 164.3 | 0.415 | 98826 | 667.2 |
| 11/10/2005 11:33 | 95.7 | 0.106 | 11.84 | 0.375 | 164.0 | 0.414 | 99234 | 666.4 |
| 11/10/2005 11:34 | 97.2 | 0.107 | 11.89 | 0.374 | 166.1 | 0.417 | 99372 | 665.1 |
| 11/10/2005 11:35 | 96.3 | 0.107 | 11.82 | 0.378 | 166.4 | 0.421 | 99354 | 660.8 |
| 11/10/2005 11:36 | 103.8 | 0.115 | 11.85 | 0.376 | 169.0 | 0.426 | 99672 | 656.2 |
| 11/10/2005 11:37 | 129.9 | 0.143 | 11.89 | 0.369 | 168.4 | 0.424 | 99954 | 655.3 |
| 11/10/2005 11:38 | 133.3 | 0.146 | 11.97 | 0.365 | 167.5 | 0.419 | 99942 | 654.8 |
| 11/10/2005 11:39 | 140.2 | 0.153 | 11.98 | 0.362 | 167.3 | 0.417 | 99936 | 654.6 |
| 11/10/2005 11:40 | 169.2 | 0.184 | 12.03 | 0.361 | 168.2 | 0.418 | 99876 | 658.5 |
| 11/10/2005 11:41 | 171.4 | 0.187 | 12.02 | 0.361 | 167.8 | 0.417 | 99792 | 662.8 |
| 11/10/2005 11:42 | 171.2 | 0.186 | 12.04 | 0.362 | 167.5 | 0.416 | 99810 | 667.1 |
| Daily Average* | 133.8 | 0.147 | 11.96 | 0.367 | 167.6 | 0.419 | 99325 | 661.4 |
| Maximum* | 171.4 | 0.187 | 12.05 | 0.378 | 170.4 | 0.426 | 99954 | 669.1 |
| Minimum* | 95.7 | 0.106 | 11.82 | 0.361 | 164.0 | 0.414 | 98694 | 651.8 |

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

Average Values Report
Generated: 11/10/2005 12:17

Company: St. Johns River Power Park U#1
Plant: 11201 New Berlin Road
City/St: Jacksonville, FL 32226
Source: Unit 1

Period Start: 11/10/2005 11:53
Period End: 11/10/2005 12:14
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Run 4

| Period Start: | Average 1outCO_C ppm | Average 1outCO_MM #/M | Average 1outCO2_C % | Average 1outNOX_MM #/M | Average 1outSO2_C ppm | Average 1outSO2_MM #/M | Average 1Stk_kscfh kscfh | Average 1Unit_Load MW |
|-----------------------|----------------------------|-----------------------------|---------------------------|------------------------------|-----------------------------|------------------------------|--------------------------------|-----------------------------|
| 11/10/2005 11:53 | 103.8 | 0.114 | 11.89 | 0.368 | 163.2 | 0.410 | 100572 | 658.0 |
| 11/10/2005 11:54 | 116.4 | 0.128 | 11.90 | 0.365 | 163.4 | 0.411 | 100188 | 658.3 |
| 11/10/2005 11:55 | 135.8 | 0.148 | 11.98 | 0.363 | 166.2 | 0.414 | 100194 | 660.1 |
| 11/10/2005 11:56 | 151.4 | 0.164 | 11.97 | 0.365 | 166.4 | 0.416 | 100188 | 662.9 |
| 11/10/2005 11:57 | 147.1 | 0.161 | 11.98 | 0.363 | 165.5 | 0.413 | 100194 | 664.0 |
| 11/10/2005 11:58 | 135.8 | 0.148 | 11.99 | 0.367 | 165.4 | 0.413 | 100200 | 666.6 |
| 11/10/2005 11:59 | 138.8 | 0.152 | 11.95 | 0.366 | 166.7 | 0.418 | 100164 | 668.9 |
| 11/10/2005 12:00 | 119.9 | 0.131 | 11.95 | 0.367 | 165.9 | 0.414 | 100188 | 668.5 |
| 11/10/2005 12:01 | 105.3 | 0.116 | 11.95 | 0.368 | 163.2 | 0.409 | 100194 | 667.3 |
| 11/10/2005 12:02 | 83.1 | 0.091 | 11.83 | 0.375 | 161.6 | 0.408 | 100200 | 667.4 |
| 11/10/2005 12:03 | 75.0 | 0.083 | 11.80 | 0.377 | 161.3 | 0.409 | 100230 | 667.2 |
| 11/10/2005 12:04 | 65.1 | 0.073 | 11.78 | 0.378 | 160.5 | 0.407 | 100266 | 667.4 |
| 11/10/2005 12:05 | 74.9 | 0.083 | 11.81 | 0.374 | 162.9 | 0.412 | 100266 | 666.5 |
| 11/10/2005 12:06 | 78.6 | 0.087 | 11.87 | 0.375 | 164.8 | 0.415 | 100266 | 664.1 |
| 11/10/2005 12:07 | 71.8 | 0.080 | 11.84 | 0.376 | 165.5 | 0.418 | 100266 | 663.0 |
| 11/10/2005 12:08 | 77.5 | 0.086 | 11.83 | 0.374 | 164.8 | 0.416 | 100212 | 661.1 |
| 11/10/2005 12:09 | 96.1 | 0.106 | 11.85 | 0.368 | 164.1 | 0.414 | 100188 | 659.5 |
| 11/10/2005 12:10 | 124.9 | 0.137 | 11.95 | 0.367 | 164.8 | 0.412 | 100176 | 658.7 |
| 11/10/2005 12:11 | 109.2 | 0.120 | 11.92 | 0.370 | 163.9 | 0.411 | 100122 | 659.3 |
| 11/10/2005 12:12 | 111.6 | 0.123 | 11.93 | 0.367 | 163.9 | 0.411 | 100122 | 659.9 |
| 11/10/2005 12:13 | 116.6 | 0.128 | 11.98 | 0.364 | 164.9 | 0.412 | 100098 | 660.9 |
| 11/10/2005 12:14 | 92.2 | 0.102 | 11.87 | 0.368 | 164.8 | 0.415 | 100110 | 663.0 |
| Daily Average* | 106.0 | 0.116 | 11.90 | 0.369 | 164.3 | 0.413 | 100209 | 663.3 |
| Maximum* | 151.4 | 0.164 | 11.99 | 0.378 | 166.7 | 0.418 | 100572 | 668.9 |
| Minimum* | 65.1 | 0.073 | 11.78 | 0.363 | 160.5 | 0.407 | 100098 | 658.0 |

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

Average Values Report
Generated: 11/10/2005 12:45

Company: St. Johns River Power Park U#1
Plant: 11201 New Berlin Road
City/St: Jacksonville, FL 32226
Source: Unit 1

Period Start: 11/10/2005 12:24
Period End: 11/10/2005 12:45
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Run 5

| Period Start: | Average loutCO_C ppm | Average loutCO_MM #/M | Average loutCO2_C % | Average loutNOX_MM #/M | Average loutSO2_C ppm | Average loutSO2_MM #/M | Average 1Stk_kscfh kscfh | Average 1Unit_Load MW |
|-----------------------|----------------------------|-----------------------------|---------------------------|------------------------------|-----------------------------|------------------------------|--------------------------------|-----------------------------|
| 11/10/2005 12:24 | 63.3 | 0.071 | 11.76 | 0.380 | 163.4 | 0.416 | 100662 | 661.5 |
| 11/10/2005 12:25 | 64.1 | 0.072 | 11.73 | 0.380 | 163.0 | 0.416 | 100566 | 657.2 |
| 11/10/2005 12:26 | 106.2 | 0.117 | 11.88 | 0.369 | 167.3 | 0.420 | 100218 | 654.0 |
| 11/10/2005 12:27 | 123.8 | 0.134 | 11.94 | 0.368 | 168.4 | 0.422 | 100188 | 651.9 |
| 11/10/2005 12:28 | 150.1 | 0.164 | 11.94 | 0.365 | 169.5 | 0.424 | 100200 | 656.3 |
| 11/10/2005 12:29 | 154.0 | 0.167 | 11.99 | 0.360 | 172.1 | 0.430 | 100020 | 662.3 |
| 11/10/2005 12:30 | 182.4 | 0.196 | 12.02 | 0.359 | 172.3 | 0.428 | 99474 | 667.6 |
| 11/10/2005 12:31 | 171.1 | 0.188 | 12.01 | 0.360 | 171.7 | 0.428 | 99462 | 671.6 |
| 11/10/2005 12:32 | 156.1 | 0.171 | 11.93 | 0.362 | 169.2 | 0.424 | 99462 | 673.8 |
| 11/10/2005 12:33 | 141.8 | 0.156 | 11.91 | 0.361 | 170.0 | 0.427 | 99606 | 673.5 |
| 11/10/2005 12:34 | 113.3 | 0.125 | 11.88 | 0.366 | 169.5 | 0.427 | 99606 | 672.0 |
| 11/10/2005 12:35 | 85.4 | 0.095 | 11.81 | 0.374 | 168.7 | 0.427 | 99606 | 670.6 |
| 11/10/2005 12:36 | 68.1 | 0.076 | 11.74 | 0.379 | 168.6 | 0.429 | 99594 | 668.7 |
| 11/10/2005 12:37 | 56.5 | 0.063 | 11.69 | 0.383 | 167.4 | 0.428 | 100482 | 667.3 |
| 11/10/2005 12:38 | 51.5 | 0.058 | 11.69 | 0.382 | 166.0 | 0.425 | 100494 | 665.8 |
| 11/10/2005 12:39 | 58.5 | 0.062 | 11.71 | 0.380 | 164.6 | 0.420 | 100608 | 662.1 |
| 11/10/2005 12:40 | 68.8 | 0.077 | 11.74 | 0.377 | 164.2 | 0.418 | 100944 | 657.1 |
| 11/10/2005 12:41 | 96.9 | 0.107 | 11.82 | 0.374 | 164.4 | 0.416 | 100968 | 653.3 |
| 11/10/2005 12:42 | 106.6 | 0.118 | 11.90 | 0.369 | 166.4 | 0.418 | 100956 | 655.2 |
| 11/10/2005 12:43 | 168.7 | 0.181 | 12.01 | 0.362 | 170.9 | 0.425 | 100956 | 660.2 |
| 11/10/2005 12:44 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 11/10/2005 12:45 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Daily Average* | 109.4 | 0.120 | 11.85 | 0.370 | 167.9 | 0.423 | 100204 | 663.1 |
| Maximum* | 182.4 | 0.196 | 12.02 | 0.383 | 172.3 | 0.430 | 100968 | 673.8 |
| Minimum* | 51.5 | 0.058 | 11.69 | 0.359 | 163.0 | 0.416 | 99462 | 651.9 |

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

Average Values Report
Generated: 11/10/2005 14:05

Company: St. Johns River Power Park U#1
Plant: 11201 New Berlin Road
City/St: Jacksonville, FL 32226
Source: Unit 1

Period Start: 11/10/2005 13:04
Period End: 11/10/2005 13:25
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Run 6

| Period Start: | Average 1outCO_C ppm | Average 1outCO_MM #/M | Average 1outCO2_C % | Average 1outNOX_MM #/M | Average 1outSO2_C ppm | Average 1outSO2_MM #/M | Average 1Stk_kscfh kscfh | Average 1Unit_Load MW |
|-----------------------|----------------------------|-----------------------------|---------------------------|------------------------------|-----------------------------|------------------------------|--------------------------------|-----------------------------|
| 11/10/2005 13:04 | 71.2 | 0.079 | 11.81 | 0.354 | 175.0 | 0.442 | 96594 | 645.4 |
| 11/10/2005 13:05 | 68.2 | 0.076 | 11.80 | 0.357 | 175.8 | 0.445 | 96366 | 644.7 |
| 11/10/2005 13:06 | 60.2 | 0.067 | 11.81 | 0.358 | 177.3 | 0.449 | 96384 | 640.9 |
| 11/10/2005 13:07 | 60.3 | 0.067 | 11.78 | 0.359 | 176.5 | 0.448 | 96378 | 642.3 |
| 11/10/2005 13:08 | 58.8 | 0.065 | 11.79 | 0.358 | 176.4 | 0.447 | 96552 | 642.3 |
| 11/10/2005 13:09 | 66.2 | 0.074 | 11.79 | 0.362 | 174.7 | 0.443 | 96762 | 643.9 |
| 11/10/2005 13:10 | 58.7 | 0.065 | 11.78 | 0.363 | 174.8 | 0.443 | 96780 | 644.3 |
| 11/10/2005 13:11 | 61.5 | 0.068 | 11.79 | 0.361 | 172.7 | 0.438 | 97332 | 647.9 |
| 11/10/2005 13:12 | 75.3 | 0.083 | 11.82 | 0.362 | 172.1 | 0.435 | 97872 | 651.7 |
| 11/10/2005 13:13 | 75.3 | 0.084 | 11.86 | 0.361 | 173.4 | 0.437 | 97860 | 652.6 |
| 11/10/2005 13:14 | 92.9 | 0.100 | 11.88 | 0.358 | 178.6 | 0.449 | 97848 | 654.4 |
| 11/10/2005 13:15 | 90.9 | 0.101 | 11.84 | 0.360 | 177.4 | 0.449 | 99438 | 656.9 |
| 11/10/2005 13:16 | 92.6 | 0.103 | 11.83 | 0.362 | 176.1 | 0.445 | 99450 | 658.5 |
| 11/10/2005 13:17 | 100.3 | 0.111 | 11.84 | 0.363 | 174.6 | 0.441 | 99432 | 661.5 |
| 11/10/2005 13:18 | 102.6 | 0.116 | 11.82 | 0.363 | 171.8 | 0.435 | 100386 | 663.4 |
| 11/10/2005 13:19 | 76.5 | 0.085 | 11.76 | 0.370 | 170.5 | 0.433 | 100542 | 667.3 |
| 11/10/2005 13:20 | 69.7 | 0.078 | 11.74 | 0.375 | 170.6 | 0.435 | 100560 | 668.3 |
| 11/10/2005 13:21 | 67.8 | 0.076 | 11.74 | 0.375 | 170.1 | 0.433 | 100572 | 668.0 |
| 11/10/2005 13:22 | 75.3 | 0.084 | 11.76 | 0.376 | 172.8 | 0.439 | 101790 | 669.8 |
| 11/10/2005 13:23 | 64.4 | 0.072 | 11.70 | 0.380 | 172.5 | 0.441 | 101790 | 669.1 |
| 11/10/2005 13:24 | 57.1 | 0.064 | 11.70 | 0.380 | 171.6 | 0.438 | 101784 | 669.3 |
| 11/10/2005 13:25 | 64.9 | 0.074 | 11.70 | 0.380 | 171.9 | 0.440 | 102120 | 668.8 |
| Daily Average* | 73.2 | 0.081 | 11.79 | 0.365 | 174.0 | 0.441 | 98845 | 656.0 |
| Maximum* | 102.6 | 0.116 | 11.88 | 0.380 | 178.6 | 0.449 | 102120 | 669.8 |
| Minimum* | 57.1 | 0.064 | 11.70 | 0.354 | 170.1 | 0.433 | 96366 | 640.9 |

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

Average Values Report
Generated: 11/10/2005 14:07

Company: St. Johns River Power Park U#1
Plant: 11201 New Berlin Road
City/St: Jacksonville, FL 32226
Source: Unit 1

Period Start: 11/10/2005 13:33
Period End: 11/10/2005 13:54
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Run 7

| Period Start: | Average 1outCO_C ppm | Average 1outCO_MM #/M | Average 1outCO2_C % | Average 1outNOX_MM #/M | Average 1outSO2_C ppm | Average 1outSO2_MM #/M | Average 1Stk_kscfh kscfh | Average 1Unit_Load MW |
|-----------------------|----------------------------|-----------------------------|---------------------------|------------------------------|-----------------------------|------------------------------|--------------------------------|-----------------------------|
| 11/10/2005 13:33 | 65.4 | 0.073 | 11.77 | 0.379 | 173.3 | 0.440 | 103770 | 666.7 |
| 11/10/2005 13:34 | 75.3 | 0.084 | 11.78 | 0.377 | 173.7 | 0.441 | 103770 | 664.8 |
| 11/10/2005 13:35 | 70.2 | 0.078 | 11.75 | 0.378 | 172.2 | 0.438 | 103758 | 663.9 |
| 11/10/2005 13:36 | 74.3 | 0.083 | 11.79 | 0.376 | 172.8 | 0.438 | 103440 | 664.0 |
| 11/10/2005 13:37 | 87.2 | 0.097 | 11.74 | 0.379 | 171.4 | 0.436 | 103476 | 663.7 |
| 11/10/2005 13:38 | 87.8 | 0.100 | 11.75 | 0.379 | 171.1 | 0.435 | 103464 | 663.9 |
| 11/10/2005 13:39 | 68.2 | 0.077 | 11.72 | 0.381 | 168.8 | 0.431 | 102690 | 665.0 |
| 11/10/2005 13:40 | 59.8 | 0.067 | 11.69 | 0.378 | 165.2 | 0.422 | 102708 | 666.3 |
| 11/10/2005 13:41 | 58.3 | 0.065 | 11.69 | 0.379 | 163.9 | 0.419 | 102714 | 666.1 |
| 11/10/2005 13:42 | 68.5 | 0.076 | 11.72 | 0.375 | 164.9 | 0.421 | 102714 | 664.8 |
| 11/10/2005 13:43 | 76.9 | 0.088 | 11.73 | 0.377 | 166.7 | 0.424 | 102426 | 660.7 |
| 11/10/2005 13:44 | 45.1 | 0.051 | 11.63 | 0.382 | 166.1 | 0.427 | 102342 | 652.3 |
| 11/10/2005 13:45 | 34.6 | 0.039 | 11.60 | 0.383 | 167.4 | 0.431 | 102384 | 647.7 |
| 11/10/2005 13:46 | 44.5 | 0.048 | 11.63 | 0.377 | 167.2 | 0.430 | 101616 | 647.0 |
| 11/10/2005 13:47 | 52.2 | 0.059 | 11.63 | 0.373 | 164.8 | 0.424 | 101418 | 647.4 |
| 11/10/2005 13:48 | 67.4 | 0.075 | 11.70 | 0.368 | 166.2 | 0.425 | 101406 | 644.8 |
| 11/10/2005 13:49 | 73.6 | 0.082 | 11.78 | 0.366 | 168.4 | 0.428 | 101406 | 643.5 |
| 11/10/2005 13:50 | 71.8 | 0.080 | 11.80 | 0.362 | 167.3 | 0.424 | 100206 | 645.7 |
| 11/10/2005 13:51 | 71.6 | 0.078 | 11.84 | 0.361 | 166.3 | 0.420 | 99912 | 644.0 |
| 11/10/2005 13:52 | 95.9 | 0.104 | 11.88 | 0.359 | 168.4 | 0.424 | 99858 | 651.1 |
| 11/10/2005 13:53 | 110.0 | 0.121 | 11.90 | 0.355 | 170.1 | 0.427 | 99354 | 659.0 |
| 11/10/2005 13:54 | 103.0 | 0.113 | 11.89 | 0.359 | 168.5 | 0.424 | 98826 | 662.3 |
| Daily Average* | 71.0 | 0.079 | 11.75 | 0.373 | 168.4 | 0.429 | 101984 | 657.0 |
| Maximum* | 110.0 | 0.121 | 11.90 | 0.383 | 173.7 | 0.441 | 103770 | 666.7 |
| Minimum* | 34.6 | 0.039 | 11.60 | 0.355 | 163.9 | 0.419 | 98826 | 643.5 |

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

Average Values Report
Generated: 11/10/2005 14:31

Company: St. Johns River Power Park U#1
Plant: 11201 New Berlin Road
City/St: Jacksonville, FL 32226
Source: Unit 1

Period Start: 11/10/2005 14:03
Period End: 11/10/2005 14:24
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Run 8

| Period Start: | Average 1outCO_C ppm | Average 1outCO_MM #/M | Average 1outCO2_C % | Average 1outNOX_MM #/M | Average 1outSO2_C ppm | Average 1outSO2_MM #/M | Average 1Stk_kscfh kscfh | Average 1Unit_Load MW |
|-----------------------|----------------------------|-----------------------------|---------------------------|------------------------------|-----------------------------|------------------------------|--------------------------------|-----------------------------|
| 11/10/2005 14:03 | 49.5 | 0.056 | 11.62 | 0.371 | 161.3 | 0.415 | 98772 | 635.1 |
| 11/10/2005 14:04 | 64.2 | 0.072 | 11.71 | 0.366 | 162.6 | 0.415 | 98736 | 634.2 |
| 11/10/2005 14:05 | 71.2 | 0.081 | 11.75 | 0.362 | 164.4 | 0.418 | 98760 | 637.4 |
| 11/10/2005 14:06 | 71.7 | 0.080 | 11.74 | 0.359 | 165.5 | 0.421 | 98748 | 643.7 |
| 11/10/2005 14:07 | 80.8 | 0.090 | 11.78 | 0.357 | 166.3 | 0.422 | 98682 | 644.6 |
| 11/10/2005 14:08 | 111.7 | 0.123 | 11.88 | 0.352 | 167.9 | 0.423 | 98670 | 642.6 |
| 11/10/2005 14:09 | 101.2 | 0.113 | 11.83 | 0.354 | 165.2 | 0.417 | 98682 | 641.3 |
| 11/10/2005 14:10 | 85.2 | 0.094 | 11.81 | 0.355 | 164.9 | 0.417 | 98352 | 643.2 |
| 11/10/2005 14:11 | 94.4 | 0.105 | 11.83 | 0.355 | 164.4 | 0.415 | 98256 | 648.8 |
| 11/10/2005 14:12 | 75.6 | 0.084 | 11.81 | 0.358 | 164.5 | 0.417 | 98232 | 650.8 |
| 11/10/2005 14:13 | 80.5 | 0.087 | 11.81 | 0.359 | 163.2 | 0.413 | 98244 | 649.8 |
| 11/10/2005 14:14 | 92.4 | 0.103 | 11.75 | 0.362 | 165.4 | 0.421 | 98244 | 651.6 |
| 11/10/2005 14:15 | 73.8 | 0.082 | 11.74 | 0.367 | 166.9 | 0.425 | 98268 | 647.2 |
| 11/10/2005 14:16 | 69.7 | 0.077 | 11.70 | 0.368 | 165.8 | 0.424 | 98256 | 642.1 |
| 11/10/2005 14:17 | 69.2 | 0.078 | 11.72 | 0.367 | 165.4 | 0.422 | 98616 | 641.7 |
| 11/10/2005 14:18 | 59.1 | 0.066 | 11.69 | 0.368 | 163.4 | 0.418 | 98736 | 641.5 |
| 11/10/2005 14:19 | 69.2 | 0.076 | 11.72 | 0.365 | 163.6 | 0.417 | 98748 | 645.2 |
| 11/10/2005 14:20 | 87.9 | 0.097 | 11.81 | 0.361 | 164.4 | 0.416 | 98748 | 649.6 |
| 11/10/2005 14:21 | 105.4 | 0.118 | 11.81 | 0.360 | 163.8 | 0.415 | 99252 | 648.6 |
| 11/10/2005 14:22 | 93.0 | 0.103 | 11.83 | 0.359 | 166.4 | 0.420 | 99414 | 646.7 |
| 11/10/2005 14:23 | 96.9 | 0.108 | 11.80 | 0.360 | 167.6 | 0.425 | 99408 | 649.2 |
| 11/10/2005 14:24 | 120.4 | 0.133 | 11.89 | 0.357 | 168.9 | 0.424 | 99726 | 648.6 |
| Daily Average* | 82.9 | 0.092 | 11.77 | 0.361 | 165.1 | 0.419 | 98707 | 644.7 |
| Maximum* | 120.4 | 0.133 | 11.89 | 0.371 | 168.9 | 0.425 | 99726 | 651.6 |
| Minimum* | 49.5 | 0.056 | 11.62 | 0.352 | 161.3 | 0.413 | 98232 | 634.2 |

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

Average Values Report
Generated: 11/10/2005 14:59

Company: St. Johns River Power Park U#1
Plant: 11201 New Berlin Road
City/St: Jacksonville, FL 32226
Source: Unit 1

Period Start: 11/10/2005 14:37
Period End: 11/10/2005 14:58
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Run9

| Period Start: | Average 1outCO_C ppm | Average 1outCO_MM #/M | Average 1outCO2_C % | Average 1outNOX_MM #/M | Average 1outSO2_C ppm | Average 1outSO2_MM #/M | Average 1Stk_kscfh kscfh | Average 1Unit_Load MW |
|-----------------------|----------------------------|-----------------------------|---------------------------|------------------------------|-----------------------------|------------------------------|--------------------------------|-----------------------------|
| 11/10/2005 14:37 | 79.3 | 0.086 | 11.77 | 0.370 | 162.3 | 0.412 | 101316 | 649.3 |
| 11/10/2005 14:38 | 75.0 | 0.083 | 11.79 | 0.370 | 160.9 | 0.408 | 101328 | 649.2 |
| 11/10/2005 14:39 | 84.4 | 0.094 | 11.75 | 0.371 | 158.7 | 0.404 | 101262 | 650.5 |
| 11/10/2005 14:40 | 88.5 | 0.098 | 11.81 | 0.368 | 158.0 | 0.400 | 101274 | 654.5 |
| 11/10/2005 14:41 | 98.3 | 0.109 | 11.82 | 0.364 | 158.4 | 0.400 | 101208 | 657.7 |
| 11/10/2005 14:42 | 98.2 | 0.109 | 11.81 | 0.367 | 160.6 | 0.406 | 101010 | 660.5 |
| 11/10/2005 14:43 | 80.3 | 0.089 | 11.83 | 0.368 | 161.1 | 0.407 | 100992 | 662.5 |
| 11/10/2005 14:44 | 78.7 | 0.087 | 11.84 | 0.368 | 161.9 | 0.409 | 101010 | 661.0 |
| 11/10/2005 14:45 | 82.9 | 0.091 | 11.79 | 0.374 | 163.1 | 0.414 | 100932 | 662.3 |
| 11/10/2005 14:46 | 60.2 | 0.067 | 11.72 | 0.378 | 160.7 | 0.410 | 100746 | 663.8 |
| 11/10/2005 14:47 | 56.6 | 0.063 | 11.71 | 0.377 | 157.7 | 0.403 | 100734 | 664.5 |
| 11/10/2005 14:48 | 54.2 | 0.060 | 11.69 | 0.377 | 155.6 | 0.398 | 100956 | 663.1 |
| 11/10/2005 14:49 | 63.3 | 0.071 | 11.72 | 0.377 | 157.2 | 0.401 | 101670 | 662.0 |
| 11/10/2005 14:50 | 58.5 | 0.065 | 11.76 | 0.377 | 159.7 | 0.406 | 101634 | 661.2 |
| 11/10/2005 14:51 | 55.7 | 0.062 | 11.80 | 0.376 | 158.8 | 0.403 | 101640 | 660.6 |
| 11/10/2005 14:52 | 48.9 | 0.054 | 11.74 | 0.378 | 157.9 | 0.402 | 101604 | 659.2 |
| 11/10/2005 14:53 | 65.3 | 0.073 | 11.80 | 0.374 | 159.8 | 0.405 | 101388 | 654.8 |
| 11/10/2005 14:54 | 64.3 | 0.070 | 11.84 | 0.374 | 158.8 | 0.400 | 101388 | 652.5 |
| 11/10/2005 14:55 | 76.7 | 0.085 | 11.86 | 0.374 | 159.8 | 0.403 | 101406 | 652.0 |
| 11/10/2005 14:56 | 78.4 | 0.087 | 11.86 | 0.372 | 161.1 | 0.406 | 101388 | 655.3 |
| 11/10/2005 14:57 | 85.7 | 0.094 | 11.88 | 0.368 | 159.1 | 0.400 | 101394 | 657.9 |
| 11/10/2005 14:58 | 108.1 | 0.119 | 11.90 | 0.365 | 161.3 | 0.404 | 101406 | 660.3 |
| Daily Average* | 74.6 | 0.083 | 11.80 | 0.372 | 159.7 | 0.405 | 101258 | 657.9 |
| Maximum* | 108.1 | 0.119 | 11.90 | 0.378 | 163.1 | 0.414 | 101670 | 664.5 |
| Minimum* | 48.9 | 0.054 | 11.69 | 0.364 | 155.6 | 0.398 | 100734 | 649.2 |

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

UNIT 2

Average Values Report
Generated: 11/9/2005 09:22

Company: St. Johns Unit 2
Plant:
City/St:
Source: Unit 2
Run 1

Period Start: 11/9/2005 08:55
Period End: 11/9/2005 09:16
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

| Period Start: | Average 2outCO_C ppm | Average 2outCO_MM #/M | Average 2outCO2_C % | Average 2outNOX_MM #/M | Average 2outSO2_C ppm | Average 2outSO2_MM #/M | Average 2Stk_kscfh kscfh | Average 2Unit_Load MW |
|-----------------------|----------------------------|-----------------------------|---------------------------|------------------------------|-----------------------------|------------------------------|--------------------------------|-----------------------------|
| 11/09/2005 08:55 | 477.5 | 0.520 | 12.02 | 0.345 | 159.0 | 0.395 | 91314 | 594.8 |
| 11/09/2005 08:56 | 444.3 | 0.485 | 11.99 | 0.346 | 158.6 | 0.395 | 91464 | 594.7 |
| 11/09/2005 08:57 | 394.6 | 0.432 | 11.96 | 0.348 | 157.9 | 0.394 | 91470 | 596.5 |
| 11/09/2005 08:58 | 506.6 | 0.554 | 11.97 | 0.343 | 157.1 | 0.392 | 91470 | 597.0 |
| 11/09/2005 08:59 | 511.1 | 0.557 | 12.04 | 0.340 | 158.4 | 0.393 | 91308 | 596.7 |
| 11/09/2005 09:00 | 479.3 | 0.521 | 12.04 | 0.342 | 158.3 | 0.393 | 91296 | 597.1 |
| 11/09/2005 09:01 | 430.1 | 0.468 | 12.02 | 0.345 | 157.0 | 0.390 | 91308 | 599.1 |
| 11/09/2005 09:02 | 443.1 | 0.483 | 12.01 | 0.346 | 157.5 | 0.392 | 91134 | 598.6 |
| 11/09/2005 09:03 | 464.9 | 0.508 | 11.96 | 0.348 | 156.3 | 0.390 | 90684 | 597.6 |
| 11/09/2005 09:04 | 506.3 | 0.553 | 11.99 | 0.346 | 156.1 | 0.389 | 90684 | 595.5 |
| 11/09/2005 09:05 | 566.6 | 0.616 | 12.05 | 0.344 | 157.8 | 0.392 | 90672 | 595.6 |
| 11/09/2005 09:06 | 514.3 | 0.562 | 11.97 | 0.348 | 155.7 | 0.389 | 90648 | 596.3 |
| 11/09/2005 09:07 | 417.6 | 0.455 | 12.01 | 0.347 | 156.9 | 0.391 | 90636 | 596.5 |
| 11/09/2005 09:08 | 408.9 | 0.444 | 12.05 | 0.346 | 157.6 | 0.391 | 90636 | 597.2 |
| 11/09/2005 09:09 | 499.6 | 0.544 | 12.02 | 0.343 | 158.4 | 0.394 | 90636 | 596.9 |
| 11/09/2005 09:10 | 515.1 | 0.559 | 12.06 | 0.340 | 158.6 | 0.393 | 90636 | 594.6 |
| 11/09/2005 09:11 | 455.7 | 0.496 | 12.01 | 0.345 | 158.9 | 0.395 | 90636 | 598.5 |
| 11/09/2005 09:12 | 411.9 | 0.448 | 12.03 | 0.345 | 158.7 | 0.394 | 90648 | 597.1 |
| 11/09/2005 09:13 | 410.8 | 0.449 | 11.99 | 0.346 | 161.0 | 0.402 | 90804 | 600.1 |
| 11/09/2005 09:14 | 483.9 | 0.526 | 12.03 | 0.343 | 160.7 | 0.399 | 90846 | 597.7 |
| 11/09/2005 09:15 | 427.0 | 0.466 | 11.99 | 0.348 | 158.7 | 0.396 | 90870 | 596.3 |
| 11/09/2005 09:16 | 430.8 | 0.470 | 12.00 | 0.348 | 158.4 | 0.394 | 90858 | 596.2 |
| Daily Average* | 463.6 | 0.505 | 12.01 | 0.345 | 158.1 | 0.393 | 90939 | 596.8 |
| Maximum* | 566.6 | 0.616 | 12.06 | 0.348 | 161.0 | 0.402 | 91470 | 600.1 |
| Minimum* | 394.6 | 0.432 | 11.96 | 0.340 | 155.7 | 0.389 | 90636 | 594.6 |

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

Average Values Report
Generated: 11/9/2005 10:04

Company: St. Johns Unit 2
Plant:
City/St:
Source: Unit 2

Period Start: 11/9/2005 09:28
Period End: 11/9/2005 09:49
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Run 2

| Period Start: | Average 2outCO_C ppm | Average 2outCO_MM #/M | Average 2outCO2_C % | Average 2outNOX_MM #/M | Average 2outsO2_C ppm | Average 2outsO2_MM #/M | Average 2Stk_kscfh kscfh | Average 2Unit_Load MW |
|-----------------------|----------------------------|-----------------------------|---------------------------|------------------------------|-----------------------------|------------------------------|--------------------------------|-----------------------------|
| 11/09/2005 09:28 | 384.8 | 0.422 | 11.95 | 0.347 | 160.1 | 0.400 | 91188 | 595.0 |
| 11/09/2005 09:29 | 464.5 | 0.508 | 11.96 | 0.345 | 160.2 | 0.401 | 91242 | 593.4 |
| 11/09/2005 09:30 | 487.4 | 0.531 | 12.00 | 0.343 | 160.0 | 0.399 | 90858 | 593.2 |
| 11/09/2005 09:31 | 443.3 | 0.485 | 11.97 | 0.344 | 160.0 | 0.400 | 90738 | 594.4 |
| 11/09/2005 09:32 | 496.8 | 0.541 | 12.01 | 0.343 | 160.3 | 0.399 | 90726 | 597.9 |
| 11/09/2005 09:33 | 494.2 | 0.538 | 12.03 | 0.342 | 159.8 | 0.397 | 90660 | 598.1 |
| 11/09/2005 09:34 | 497.0 | 0.538 | 12.09 | 0.339 | 161.2 | 0.399 | 90636 | 598.2 |
| 11/09/2005 09:35 | 435.4 | 0.471 | 12.10 | 0.340 | 161.8 | 0.400 | 90636 | 599.3 |
| 11/09/2005 09:36 | 373.3 | 0.406 | 12.03 | 0.347 | 160.4 | 0.398 | 90636 | 598.4 |
| 11/09/2005 09:37 | 452.5 | 0.495 | 11.97 | 0.347 | 159.9 | 0.399 | 90636 | 595.3 |
| 11/09/2005 09:38 | 496.0 | 0.541 | 11.99 | 0.345 | 160.7 | 0.401 | 90648 | 594.4 |
| 11/09/2005 09:39 | 406.5 | 0.444 | 11.99 | 0.348 | 160.1 | 0.399 | 90624 | 595.6 |
| 11/09/2005 09:40 | 423.9 | 0.462 | 12.02 | 0.346 | 161.8 | 0.402 | 90636 | 594.5 |
| 11/09/2005 09:41 | 470.5 | 0.513 | 12.01 | 0.343 | 160.9 | 0.400 | 90636 | 594.6 |
| 11/09/2005 09:42 | 470.9 | 0.514 | 12.00 | 0.341 | 159.7 | 0.398 | 90636 | 596.0 |
| 11/09/2005 09:43 | 501.3 | 0.548 | 11.98 | 0.341 | 159.9 | 0.399 | 90570 | 596.9 |
| 11/09/2005 09:44 | 414.0 | 0.452 | 11.98 | 0.344 | 160.4 | 0.400 | 90354 | 594.0 |
| 11/09/2005 09:45 | 566.3 | 0.616 | 12.04 | 0.339 | 161.0 | 0.401 | 90372 | 594.4 |
| 11/09/2005 09:46 | 527.7 | 0.578 | 11.95 | 0.342 | 160.0 | 0.400 | 90372 | 593.7 |
| 11/09/2005 09:47 | 511.0 | 0.559 | 11.96 | 0.343 | 160.7 | 0.402 | 90438 | 594.1 |
| 11/09/2005 09:48 | 472.5 | 0.519 | 11.92 | 0.344 | 160.5 | 0.402 | 90462 | 594.2 |
| 11/09/2005 09:49 | 458.0 | 0.501 | 11.96 | 0.342 | 161.3 | 0.403 | 90444 | 592.9 |
| Daily Average* | 465.8 | 0.508 | 12.00 | 0.343 | 160.5 | 0.400 | 90643 | 595.4 |
| Maximum* | 566.3 | 0.616 | 12.10 | 0.348 | 161.8 | 0.403 | 91242 | 599.3 |
| Minimum* | 373.3 | 0.406 | 11.92 | 0.339 | 159.7 | 0.397 | 90354 | 592.9 |

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

Average Values Report
Generated: 11/9/2005 10:24

Company: St. Johns Unit 2
Plant:
City/St:
Source: Unit 2

Period Start: 11/9/2005 10:00
Period End: 11/9/2005 10:21
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Run 3

| Period Start: | Average 2outCO_C ppm | Average 2outCO_MM #/M | Average 2outCO2_C % | Average 2outNOX_MM #/M | Average 2outSO2_C ppm | Average 2outSO2_MM #/M | Average 2Stk_kscfh kscfh | Average 2Unit_Load MW |
|-----------------------|----------------------------|-----------------------------|---------------------------|------------------------------|-----------------------------|------------------------------|--------------------------------|-----------------------------|
| 11/09/2005 10:00 | 450.8 | 0.493 | 11.98 | 0.341 | 159.4 | 0.397 | 90594 | 596.6 |
| 11/09/2005 10:01 | 471.0 | 0.516 | 11.95 | 0.340 | 158.3 | 0.396 | 90606 | 598.1 |
| 11/09/2005 10:02 | 442.6 | 0.484 | 11.96 | 0.339 | 158.4 | 0.396 | 90564 | 597.0 |
| 11/09/2005 10:03 | 446.0 | 0.488 | 11.98 | 0.340 | 159.1 | 0.397 | 90504 | 597.0 |
| 11/09/2005 10:04 | 467.5 | 0.510 | 11.99 | 0.340 | 159.8 | 0.398 | 90492 | 592.6 |
| 11/09/2005 10:05 | 393.9 | 0.432 | 11.94 | 0.343 | 159.4 | 0.399 | 90492 | 593.6 |
| 11/09/2005 10:06 | 432.0 | 0.475 | 11.90 | 0.345 | 159.5 | 0.401 | 90474 | 592.6 |
| 11/09/2005 10:07 | 426.1 | 0.468 | 11.92 | 0.343 | 160.4 | 0.402 | 90420 | 590.9 |
| 11/09/2005 10:08 | 403.1 | 0.442 | 11.93 | 0.342 | 160.5 | 0.402 | 90408 | 591.4 |
| 11/09/2005 10:09 | 471.6 | 0.516 | 11.96 | 0.339 | 161.6 | 0.404 | 90432 | 593.1 |
| 11/09/2005 10:10 | 482.1 | 0.528 | 11.95 | 0.340 | 161.1 | 0.403 | 90684 | 593.0 |
| 11/09/2005 10:11 | 441.0 | 0.484 | 11.92 | 0.340 | 161.0 | 0.404 | 90696 | 594.5 |
| 11/09/2005 10:12 | 481.3 | 0.528 | 11.93 | 0.340 | 162.1 | 0.406 | 90696 | 594.4 |
| 11/09/2005 10:13 | 469.2 | 0.516 | 11.91 | 0.340 | 161.3 | 0.405 | 91032 | 594.4 |
| 11/09/2005 10:14 | 483.3 | 0.531 | 11.92 | 0.340 | 160.3 | 0.402 | 91032 | 593.3 |
| 11/09/2005 10:15 | 470.1 | 0.515 | 11.94 | 0.340 | 160.3 | 0.401 | 91020 | 593.5 |
| 11/09/2005 10:16 | 455.1 | 0.501 | 11.90 | 0.344 | 159.2 | 0.400 | 91044 | 593.7 |
| 11/09/2005 10:17 | 453.7 | 0.499 | 11.90 | 0.340 | 160.0 | 0.402 | 91338 | 594.8 |
| 11/09/2005 10:18 | 511.8 | 0.558 | 12.01 | 0.337 | 162.1 | 0.403 | 91350 | 598.0 |
| 11/09/2005 10:19 | 556.2 | 0.606 | 12.01 | 0.337 | 161.3 | 0.401 | 91338 | 597.1 |
| 11/09/2005 10:20 | 533.6 | 0.582 | 11.99 | 0.339 | 160.7 | 0.400 | 91320 | 596.4 |
| 11/09/2005 10:21 | 466.9 | 0.512 | 11.93 | 0.342 | 159.6 | 0.400 | 91278 | 595.5 |
| Daily Average* | 464.0 | 0.508 | 11.95 | 0.341 | 160.2 | 0.401 | 90810 | 594.6 |
| Maximum* | 556.2 | 0.606 | 12.01 | 0.345 | 162.1 | 0.406 | 91350 | 598.1 |
| Minimum* | 393.9 | 0.432 | 11.90 | 0.337 | 158.3 | 0.396 | 90408 | 590.9 |

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

Average Values Report
Generated: 11/9/2005 11:04

Company: St. Johns Unit 2
Plant:
City/St:
Source: Unit 2

Period Start: 11/9/2005 10:41
Period End: 11/9/2005 11:02
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Run 4

| Period Start: | Average 2outCO_C ppm | Average 2outCO_MM #/M | Average 2outCO2_C % | Average 2outNOX_MM #/M | Average 2outsO2_C ppm | Average 2outsO2_MM #/M | Average 2Stk_kscfh kscfh | Average 2Unit_Load MW |
|-----------------------|----------------------------|-----------------------------|---------------------------|------------------------------|-----------------------------|------------------------------|--------------------------------|-----------------------------|
| 11/09/2005 10:41 | 399.0 | 0.435 | 12.00 | 0.343 | 159.6 | 0.397 | 91164 | 592.5 |
| 11/09/2005 10:42 | 376.0 | 0.410 | 12.01 | 0.344 | 159.4 | 0.396 | 91068 | 595.2 |
| 11/09/2005 10:43 | 489.5 | 0.533 | 12.03 | 0.342 | 161.2 | 0.401 | 90768 | 596.0 |
| 11/09/2005 10:44 | 416.4 | 0.454 | 11.99 | 0.345 | 159.7 | 0.398 | 90768 | 595.0 |
| 11/09/2005 10:45 | 443.6 | 0.484 | 11.98 | 0.344 | 159.8 | 0.399 | 90768 | 593.7 |
| 11/09/2005 10:46 | 451.9 | 0.492 | 12.02 | 0.343 | 159.8 | 0.397 | 90594 | 593.1 |
| 11/09/2005 10:47 | 486.1 | 0.529 | 12.02 | 0.342 | 160.8 | 0.400 | 90552 | 592.5 |
| 11/09/2005 10:48 | 488.1 | 0.533 | 11.99 | 0.343 | 159.2 | 0.397 | 90564 | 593.9 |
| 11/09/2005 10:49 | 447.3 | 0.489 | 11.95 | 0.344 | 157.2 | 0.393 | 90540 | 595.0 |
| 11/09/2005 10:50 | 518.4 | 0.564 | 12.03 | 0.341 | 157.8 | 0.392 | 90594 | 592.0 |
| 11/09/2005 10:51 | 475.8 | 0.515 | 12.08 | 0.339 | 158.7 | 0.393 | 90606 | 592.7 |
| 11/09/2005 10:52 | 411.9 | 0.449 | 12.01 | 0.343 | 158.4 | 0.394 | 90594 | 593.7 |
| 11/09/2005 10:53 | 419.8 | 0.456 | 12.05 | 0.342 | 159.3 | 0.395 | 90330 | 594.9 |
| 11/09/2005 10:54 | 435.2 | 0.473 | 12.05 | 0.342 | 159.4 | 0.395 | 90066 | 597.6 |
| 11/09/2005 10:55 | 542.4 | 0.589 | 12.05 | 0.340 | 161.5 | 0.400 | 90066 | 597.7 |
| 11/09/2005 10:56 | 465.2 | 0.506 | 12.04 | 0.344 | 161.7 | 0.401 | 90174 | 595.8 |
| 11/09/2005 10:57 | 433.7 | 0.472 | 12.02 | 0.347 | 160.7 | 0.399 | 90594 | 592.4 |
| 11/09/2005 10:58 | 444.5 | 0.483 | 12.04 | 0.345 | 161.1 | 0.400 | 90606 | 592.0 |
| 11/09/2005 10:59 | 390.2 | 0.425 | 12.03 | 0.345 | 159.4 | 0.396 | 90594 | 590.8 |
| 11/09/2005 11:00 | 465.8 | 0.510 | 11.96 | 0.346 | 159.4 | 0.399 | 90384 | 591.8 |
| 11/09/2005 11:01 | 437.2 | 0.477 | 11.99 | 0.346 | 158.6 | 0.395 | 90132 | 592.7 |
| 11/09/2005 11:02 | 401.0 | 0.438 | 11.97 | 0.344 | 156.9 | 0.391 | 90144 | 591.7 |
| Daily Average* | 447.2 | 0.487 | 12.01 | 0.343 | 159.5 | 0.397 | 90530 | 593.8 |
| Maximum* | 542.4 | 0.589 | 12.08 | 0.347 | 161.7 | 0.401 | 91164 | 597.7 |
| Minimum* | 376.0 | 0.410 | 11.95 | 0.339 | 156.9 | 0.391 | 90066 | 590.8 |

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

Average Values Report
Generated: 11/9/2005 12:10

Company: St. Johns Unit 2
Plant:
City/St:
Source: Unit 2

Period Start: 11/9/2005 11:13
Period End: 11/9/2005 11:34
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Run 5

| Period Start: | Average 2outCO_C ppm | Average 2outCO_MM #/M | Average 2outCO2_C % | Average 2outNOX_MM #/M | Average 2outsO2_C ppm | Average 2outsO2_MM #/M | Average 2Stk_kscfh kscfh | Average 2Unit_Load MW |
|-----------------------|----------------------------|-----------------------------|---------------------------|------------------------------|-----------------------------|------------------------------|--------------------------------|-----------------------------|
| 11/09/2005 11:13 | 369.9 | 0.402 | 12.05 | 0.344 | 159.0 | 0.394 | 90594 | 593.9 |
| 11/09/2005 11:14 | 361.6 | 0.393 | 12.06 | 0.346 | 158.1 | 0.392 | 90582 | 595.3 |
| 11/09/2005 11:15 | 382.6 | 0.417 | 12.01 | 0.349 | 156.6 | 0.389 | 90816 | 591.4 |
| 11/09/2005 11:16 | 411.6 | 0.448 | 12.03 | 0.346 | 158.4 | 0.394 | 90846 | 591.1 |
| 11/09/2005 11:17 | 389.0 | 0.424 | 12.01 | 0.347 | 158.6 | 0.395 | 90858 | 592.0 |
| 11/09/2005 11:18 | 342.6 | 0.373 | 12.03 | 0.347 | 157.7 | 0.392 | 90870 | 593.8 |
| 11/09/2005 11:19 | 391.1 | 0.425 | 12.04 | 0.347 | 158.2 | 0.393 | 91164 | 597.0 |
| 11/09/2005 11:20 | 419.0 | 0.454 | 12.07 | 0.343 | 161.3 | 0.399 | 91164 | 597.1 |
| 11/09/2005 11:21 | 396.7 | 0.429 | 12.11 | 0.343 | 163.2 | 0.403 | 91068 | 597.8 |
| 11/09/2005 11:22 | 419.8 | 0.456 | 12.05 | 0.348 | 161.9 | 0.401 | 90834 | 593.2 |
| 11/09/2005 11:23 | 420.1 | 0.458 | 12.01 | 0.348 | 160.6 | 0.399 | 90858 | 592.7 |
| 11/09/2005 11:24 | 366.0 | 0.397 | 12.05 | 0.350 | 160.7 | 0.398 | 90840 | 595.8 |
| 11/09/2005 11:25 | 396.2 | 0.433 | 11.98 | 0.349 | 160.6 | 0.401 | 90840 | 597.3 |
| 11/09/2005 11:26 | 350.6 | 0.382 | 12.00 | 0.349 | 161.5 | 0.402 | 90912 | 595.9 |
| 11/09/2005 11:27 | 318.5 | 0.346 | 12.06 | 0.348 | 162.9 | 0.404 | 90900 | 594.7 |
| 11/09/2005 11:28 | 367.1 | 0.399 | 12.02 | 0.347 | 162.8 | 0.405 | 90924 | 597.6 |
| 11/09/2005 11:29 | 430.0 | 0.469 | 12.01 | 0.347 | 160.6 | 0.400 | 90990 | 594.8 |
| 11/09/2005 11:30 | 419.9 | 0.458 | 12.00 | 0.349 | 160.4 | 0.399 | 90990 | 594.5 |
| 11/09/2005 11:31 | 456.3 | 0.498 | 12.01 | 0.347 | 160.9 | 0.401 | 91002 | 595.8 |
| 11/09/2005 11:32 | 447.0 | 0.487 | 12.02 | 0.346 | 160.4 | 0.399 | 91206 | 597.4 |
| 11/09/2005 11:33 | 398.3 | 0.434 | 12.00 | 0.347 | 160.1 | 0.399 | 91428 | 594.1 |
| 11/09/2005 11:34 | 475.1 | 0.517 | 12.04 | 0.344 | 159.9 | 0.397 | 91440 | 593.3 |
| Daily Average* | 396.8 | 0.432 | 12.03 | 0.347 | 160.2 | 0.398 | 90960 | 594.8 |
| Maximum* | 475.1 | 0.517 | 12.11 | 0.350 | 163.2 | 0.405 | 91440 | 597.8 |
| | 11/09/2005 | 11/09/2005 | 11/09/2005 | 11/09/2005 | 11/09/2005 | 11/09/2005 | 11/09/2005 | 11/09/2005 |
| | 11:34 | 11:34 | 11:21 | 11:24 | 11:21 | 11:28 | 11:34 | 11:21 |
| Minimum* | 318.5 | 0.346 | 11.98 | 0.343 | 156.6 | 0.389 | 90582 | 591.1 |
| | 11/09/2005 | 11/09/2005 | 11/09/2005 | 11/09/2005 | 11/09/2005 | 11/09/2005 | 11/09/2005 | 11/09/2005 |
| | 11:27 | 11:27 | 11:25 | 11:21 | 11:15 | 11:15 | 11:14 | 11:16 |

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

Average Values Report
Generated: 11/9/2005 12:11

Company: St. Johns Unit 2
Plant:
City/St:
Source: Unit 2

Period Start: 11/9/2005 11:45
Period End: 11/9/2005 12:06
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Run 6

| Period Start: | Average 2outCO_C ppm | Average 2outCO_MM #/M | Average 2outCO2_C % | Average 2outNOX_MM #/M | Average 2outSO2_C ppm | Average 2outSO2_MM #/M | Average 2Stk_kscfh kscfh | Average 2Unit_Load MW |
|-----------------------|----------------------------|-----------------------------|---------------------------|------------------------------|-----------------------------|------------------------------|--------------------------------|-----------------------------|
| 11/09/2005 11:45 | 463.0 | 0.506 | 11.99 | 0.347 | 161.0 | 0.402 | 90948 | 592.9 |
| 11/09/2005 11:46 | 402.8 | 0.440 | 11.98 | 0.349 | 160.4 | 0.400 | 90948 | 591.0 |
| 11/09/2005 11:47 | 428.7 | 0.467 | 12.01 | 0.347 | 161.1 | 0.401 | 90660 | 588.7 |
| 11/09/2005 11:48 | 392.5 | 0.430 | 11.96 | 0.349 | 159.4 | 0.398 | 90540 | 592.3 |
| 11/09/2005 11:49 | 348.4 | 0.381 | 11.99 | 0.347 | 158.9 | 0.396 | 90564 | 594.8 |
| 11/09/2005 11:50 | 447.4 | 0.487 | 12.02 | 0.345 | 160.0 | 0.398 | 90552 | 596.0 |
| 11/09/2005 11:51 | 547.3 | 0.590 | 12.14 | 0.340 | 162.4 | 0.400 | 90618 | 596.6 |
| 11/09/2005 11:52 | 486.4 | 0.527 | 12.08 | 0.344 | 161.5 | 0.400 | 90636 | 594.0 |
| 11/09/2005 11:53 | 468.8 | 0.510 | 12.03 | 0.346 | 162.3 | 0.403 | 90636 | 591.4 |
| 11/09/2005 11:54 | 444.5 | 0.485 | 12.00 | 0.346 | 161.8 | 0.403 | 90636 | 593.2 |
| 11/09/2005 11:55 | 387.6 | 0.424 | 11.96 | 0.349 | 161.3 | 0.403 | 90990 | 593.0 |
| 11/09/2005 11:56 | 431.0 | 0.469 | 12.03 | 0.345 | 162.8 | 0.404 | 91002 | 593.2 |
| 11/09/2005 11:57 | 429.2 | 0.466 | 12.06 | 0.344 | 162.8 | 0.404 | 90990 | 592.9 |
| 11/09/2005 11:58 | 401.5 | 0.437 | 12.03 | 0.347 | 161.0 | 0.400 | 91002 | 593.7 |
| 11/09/2005 11:59 | 475.0 | 0.519 | 11.98 | 0.346 | 159.7 | 0.398 | 91020 | 593.7 |
| 11/09/2005 12:00 | 447.8 | 0.491 | 11.95 | 0.346 | 159.3 | 0.398 | 91032 | 594.9 |
| 11/09/2005 12:01 | 446.6 | 0.488 | 11.98 | 0.343 | 160.3 | 0.400 | 91032 | 592.8 |
| 11/09/2005 12:02 | 471.8 | 0.514 | 12.01 | 0.346 | 159.9 | 0.398 | 90912 | 594.9 |
| 11/09/2005 12:03 | 429.9 | 0.470 | 11.97 | 0.349 | 159.4 | 0.398 | 90846 | 596.4 |
| 11/09/2005 12:04 | 403.4 | 0.441 | 11.98 | 0.346 | 160.7 | 0.401 | 90858 | 595.9 |
| 11/09/2005 12:05 | 362.0 | 0.395 | 12.00 | 0.347 | 161.1 | 0.401 | 90780 | 593.8 |
| 11/09/2005 12:06 | 424.4 | 0.465 | 11.96 | 0.350 | 160.6 | 0.401 | 90504 | 593.5 |
| Daily Average* | 433.6 | 0.473 | 12.00 | 0.346 | 160.8 | 0.400 | 90805 | 593.6 |
| Maximum* | 547.3 | 0.590 | 12.14 | 0.350 | 162.8 | 0.404 | 91032 | 596.6 |
| Minimum* | 348.4 | 0.381 | 11.95 | 0.340 | 158.9 | 0.396 | 90504 | 588.7 |

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

Average Values Report
Generated: 11/9/2005 12:40

Company: St. Johns Unit 2
Plant:
City/St:
Source: Unit 2

Period Start: 11/9/2005 12:19
Period End: 11/9/2005 12:40
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Run 4

| Period Start: | Average 2outCO_C ppm | Average 2outCO_MM #/M | Average 2outCO2_C % | Average 2outNOX_MM #/M | Average 2outSO2_C ppm | Average 2outSO2_MM #/M | Average 2Stk_kscfh kscfh | Average 2Unit_Load MW |
|-----------------------|----------------------------|-----------------------------|---------------------------|------------------------------|-----------------------------|------------------------------|--------------------------------|-----------------------------|
| 11/09/2005 12:19 | 324.4 | 0.355 | 11.97 | 0.350 | 157.9 | 0.394 | 90132 | 591.7 |
| 11/09/2005 12:20 | 387.3 | 0.422 | 12.02 | 0.346 | 158.4 | 0.394 | 90054 | 597.4 |
| 11/09/2005 12:21 | 386.5 | 0.422 | 12.00 | 0.348 | 157.2 | 0.392 | 90054 | 597.3 |
| 11/09/2005 12:22 | 479.0 | 0.519 | 12.08 | 0.346 | 160.6 | 0.397 | 90066 | 593.5 |
| 11/09/2005 12:23 | 542.1 | 0.589 | 12.03 | 0.345 | 162.5 | 0.403 | 90264 | 592.3 |
| 11/09/2005 12:24 | 430.6 | 0.469 | 12.02 | 0.347 | 160.0 | 0.397 | 90330 | 592.9 |
| 11/09/2005 12:25 | 360.1 | 0.396 | 11.92 | 0.354 | 158.7 | 0.398 | 90330 | 592.9 |
| 11/09/2005 12:26 | 352.0 | 0.386 | 11.92 | 0.354 | 158.9 | 0.398 | 90450 | 596.6 |
| 11/09/2005 12:27 | 401.8 | 0.439 | 11.99 | 0.351 | 159.3 | 0.397 | 90828 | 597.2 |
| 11/09/2005 12:28 | 338.4 | 0.371 | 11.95 | 0.353 | 158.6 | 0.397 | 90828 | 596.9 |
| 11/09/2005 12:29 | 442.5 | 0.482 | 12.02 | 0.349 | 159.3 | 0.396 | 90966 | 592.5 |
| 11/09/2005 12:30 | 417.1 | 0.455 | 12.00 | 0.350 | 157.9 | 0.393 | 91230 | 590.7 |
| 11/09/2005 12:31 | 394.3 | 0.431 | 11.96 | 0.352 | 157.7 | 0.394 | 91218 | 593.7 |
| 11/09/2005 12:32 | 363.9 | 0.398 | 11.98 | 0.350 | 156.1 | 0.390 | 91218 | 596.8 |
| 11/09/2005 12:33 | 434.7 | 0.473 | 12.03 | 0.349 | 157.3 | 0.391 | 91206 | 597.3 |
| 11/09/2005 12:34 | 448.2 | 0.486 | 12.08 | 0.348 | 158.3 | 0.392 | 91062 | 594.4 |
| 11/09/2005 12:35 | 416.2 | 0.453 | 12.03 | 0.349 | 159.1 | 0.395 | 91074 | 593.6 |
| 11/09/2005 12:36 | 362.4 | 0.396 | 11.98 | 0.356 | 158.0 | 0.394 | 91074 | 590.3 |
| 11/09/2005 12:37 | 328.8 | 0.358 | 12.02 | 0.357 | 157.0 | 0.390 | 91062 | 590.4 |
| 11/09/2005 12:38 | 388.3 | 0.423 | 12.01 | 0.354 | 157.3 | 0.391 | 91062 | 590.9 |
| 11/09/2005 12:39 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 11/09/2005 12:40 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Daily Average* | 399.9 | 0.436 | 12.00 | 0.350 | 158.5 | 0.395 | 90725 | 594.0 |
| Maximum* | 542.1 | 0.589 | 12.08 | 0.357 | 162.5 | 0.403 | 91230 | 597.4 |
| Minimum* | 324.4 | 0.355 | 11.92 | 0.345 | 156.1 | 0.390 | 90054 | 590.3 |

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

Average Values Report
Generated: 11/9/2005 13:12

Company: St. Johns Unit 2
Plant:
City/St:
Source: Unit 2

Period Start: 11/9/2005 12:51
Period End: 11/9/2005 13:12
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Run 8

| Period Start: | Average 2outCO_C ppm | Average 2outCO_MM #/M | Average 2outCO2_C % | Average 2outNOX_MM #/M | Average 2outSO2_C ppm | Average 2outSO2_MM #/M | Average 2Stk_kscfh kscfh | Average 2Unit_Load MW |
|-----------------------|----------------------------|-----------------------------|---------------------------|------------------------------|-----------------------------|------------------------------|--------------------------------|-----------------------------|
| 11/09/2005 12:51 | 387.6 | 0.424 | 11.98 | 0.350 | 158.4 | 0.395 | 91350 | 592.7 |
| 11/09/2005 12:52 | 487.0 | 0.529 | 12.05 | 0.348 | 159.7 | 0.396 | 91326 | 594.3 |
| 11/09/2005 12:53 | 414.5 | 0.453 | 11.99 | 0.354 | 158.6 | 0.395 | 91320 | 594.9 |
| 11/09/2005 12:54 | 338.3 | 0.371 | 11.95 | 0.355 | 157.3 | 0.394 | 91296 | 594.2 |
| 11/09/2005 12:55 | 356.9 | 0.390 | 11.97 | 0.355 | 158.6 | 0.396 | 91296 | 592.3 |
| 11/09/2005 12:56 | 330.2 | 0.359 | 12.03 | 0.354 | 159.3 | 0.396 | 91296 | 593.2 |
| 11/09/2005 12:57 | 298.9 | 0.327 | 11.97 | 0.359 | 157.8 | 0.394 | 91548 | 594.4 |
| 11/09/2005 12:58 | 292.0 | 0.321 | 11.91 | 0.359 | 157.9 | 0.396 | 91638 | 595.1 |
| 11/09/2005 12:59 | 336.4 | 0.370 | 11.97 | 0.356 | 158.0 | 0.395 | 91662 | 594.0 |
| 11/09/2005 13:00 | 338.9 | 0.370 | 11.99 | 0.353 | 157.6 | 0.393 | 91782 | 595.7 |
| 11/09/2005 13:01 | 345.3 | 0.378 | 11.96 | 0.353 | 156.6 | 0.391 | 91926 | 595.2 |
| 11/09/2005 13:02 | 360.5 | 0.393 | 12.00 | 0.354 | 158.3 | 0.394 | 91926 | 593.7 |
| 11/09/2005 13:03 | 364.9 | 0.397 | 12.02 | 0.356 | 159.5 | 0.397 | 92034 | 595.3 |
| 11/09/2005 13:04 | 318.5 | 0.348 | 11.96 | 0.358 | 157.1 | 0.393 | 92154 | 595.1 |
| 11/09/2005 13:05 | 285.8 | 0.313 | 11.95 | 0.359 | 157.2 | 0.393 | 92130 | 595.3 |
| 11/09/2005 13:06 | 285.9 | 0.313 | 11.95 | 0.359 | 156.7 | 0.391 | 92130 | 595.7 |
| 11/09/2005 13:07 | 394.7 | 0.432 | 11.97 | 0.358 | 159.1 | 0.397 | 91998 | 593.3 |
| 11/09/2005 13:08 | 401.0 | 0.437 | 12.00 | 0.356 | 159.2 | 0.396 | 91998 | 594.2 |
| 11/09/2005 13:09 | 352.3 | 0.385 | 11.97 | 0.356 | 159.6 | 0.399 | 92010 | 596.5 |
| 11/09/2005 13:10 | 364.8 | 0.398 | 12.01 | 0.352 | 160.6 | 0.400 | 92022 | 598.9 |
| 11/09/2005 13:11 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 11/09/2005 13:12 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Daily Average* | 352.7 | 0.385 | 11.98 | 0.355 | 158.4 | 0.395 | 91742 | 594.7 |
| Maximum* | 487.0 | 0.529 | 12.05 | 0.359 | 160.6 | 0.400 | 92154 | 598.9 |
| Minimum* | 285.8 | 0.313 | 11.91 | 0.348 | 156.6 | 0.391 | 91296 | 592.3 |

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

Average Values Report
Generated: 11/9/2005 13:56

Company: St. Johns Unit 2
Plant:
City/St:
Source: Unit 2

Period Start: 11/9/2005 13:25
Period End: 11/9/2005 13:46
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

Run 9

| Period Start: | Average 2outCO_C ppm | Average 2outCO_MM #/M | Average 2outCO2_C % | Average 2outNOX_MM #/M | Average 2outsO2_C ppm | Average 2outsO2_MM #/M | Average 2Stk_kscfh kscfh | Average 2Unit_Load MW |
|-----------------------|----------------------------|-----------------------------|---------------------------|------------------------------|-----------------------------|------------------------------|--------------------------------|-----------------------------|
| 11/09/2005 13:25 | 342.3 | 0.373 | 12.02 | 0.355 | 160.7 | 0.400 | 91968 | 596.5 |
| 11/09/2005 13:26 | 309.0 | 0.339 | 11.94 | 0.358 | 160.6 | 0.402 | 91974 | 595.4 |
| 11/09/2005 13:27 | 335.9 | 0.367 | 11.97 | 0.358 | 161.0 | 0.402 | 92010 | 596.3 |
| 11/09/2005 13:28 | 336.6 | 0.369 | 11.96 | 0.356 | 161.2 | 0.403 | 92166 | 595.7 |
| 11/09/2005 13:29 | 269.8 | 0.296 | 11.92 | 0.359 | 158.5 | 0.397 | 92178 | 596.4 |
| 11/09/2005 13:30 | 239.2 | 0.263 | 11.90 | 0.361 | 157.2 | 0.395 | 92178 | 595.1 |
| 11/09/2005 13:31 | 261.4 | 0.286 | 11.95 | 0.359 | 157.4 | 0.393 | 92286 | 594.8 |
| 11/09/2005 13:32 | 305.2 | 0.333 | 11.98 | 0.358 | 158.8 | 0.396 | 92394 | 598.1 |
| 11/09/2005 13:33 | 283.3 | 0.310 | 11.94 | 0.360 | 158.9 | 0.398 | 92394 | 598.7 |
| 11/09/2005 13:34 | 352.4 | 0.385 | 12.00 | 0.354 | 159.2 | 0.397 | 92352 | 600.3 |
| 11/09/2005 13:35 | 335.3 | 0.366 | 11.99 | 0.356 | 159.3 | 0.397 | 92310 | 598.5 |
| 11/09/2005 13:36 | 320.4 | 0.350 | 11.98 | 0.359 | 159.7 | 0.399 | 92334 | 596.0 |
| 11/09/2005 13:37 | 307.5 | 0.336 | 11.98 | 0.363 | 160.6 | 0.401 | 92310 | 593.6 |
| 11/09/2005 13:38 | 344.4 | 0.376 | 11.97 | 0.359 | 160.3 | 0.400 | 92310 | 591.5 |
| 11/09/2005 13:39 | 323.4 | 0.355 | 11.92 | 0.361 | 159.0 | 0.399 | 92334 | 594.5 |
| 11/09/2005 13:40 | 272.4 | 0.300 | 11.88 | 0.363 | 157.4 | 0.396 | 92340 | 596.9 |
| 11/09/2005 13:41 | 281.8 | 0.310 | 11.90 | 0.362 | 158.7 | 0.399 | 92322 | 595.9 |
| 11/09/2005 13:42 | 237.7 | 0.261 | 11.93 | 0.361 | 158.5 | 0.397 | 92310 | 595.7 |
| 11/09/2005 13:43 | 287.7 | 0.317 | 11.90 | 0.363 | 158.7 | 0.398 | 92310 | 593.8 |
| 11/09/2005 13:44 | 273.0 | 0.299 | 11.96 | 0.359 | 156.8 | 0.391 | 92352 | 596.1 |
| 11/09/2005 13:45 | 261.1 | 0.286 | 11.94 | 0.360 | 157.3 | 0.394 | 92364 | 595.2 |
| 11/09/2005 13:46 | 266.9 | 0.292 | 11.97 | 0.359 | 159.9 | 0.399 | 92352 | 594.8 |
| Daily Average* | 297.6 | 0.326 | 11.95 | 0.359 | 159.1 | 0.398 | 92266 | 595.9 |
| Maximum* | 352.4 | 0.385 | 12.02 | 0.363 | 161.2 | 0.403 | 92394 | 600.3 |
| Minimum* | 237.7 | 0.261 | 11.88 | 0.354 | 156.8 | 0.391 | 91968 | 591.5 |

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