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GAINESVILLE REGIONAL UTILITIES

STRATEGIC PLANNING

February 24, 2009

Mr. Jeff Koerner, P.E.
Professional Engineer Administrator
Florida Department of Environmental Protection
Division of Air Resource Management
111 South Magnolia Drive, Suite 23
Tallahassee, Florida 32301

Re: Gainesville Regional Utilities
Deerhaven Generating Station
Permit No. 0010006-005-AC
Permit Application Amendment

Dear Mr. Koerner:

The purpose of this letter is to transmit to the Department information related to the upcoming outage on Unit 2 at the Deerhaven Generating Station (DGS) as discussed during our phone conversation of February 20, 2009.

The original Unit 2 Air Quality Control System (AQCS) construction permit application was submitted on February 27, 2007. The final permit was issued on August 13, 2007 and included authorization to perform a steam turbine upgrade in addition to an SCR, dry FGD, baghouse and other facilities related to the AQCS. During the upcoming outage, scheduled to begin on March 13, 2009, GRU has also scheduled the replacement of the primary superheater. The installation of the new superheater is scheduled to begin on March 31, 2009.

The superheater project will be a "like-kind" replacement in that the new superheater will have the same surface area as the original, use the same size and grade of tubing as the original, and have the same shape as the original. The replacement will not cause an increase in steam production, will not change the combustion characteristics of the boiler, and will not cause an increase in the utilization or capacity factor of Unit 2 since it is a base load unit. The original Analysis of Net Emissions, contained in the original application package, is still valid for the addition of the superheater replacement since it will cause no change to the operation of Unit 2.

It is arguable that this superheater replacement does not require a construction permit. However, due to current regulatory uncertainty with respect this type of project as well as discussions with the Department, this letter serves to transmit the relevant pages needed to amend the original construction permit application to include the primary superheater replacement.

The attached set of documents includes the first six pages of the original application which includes signature pages, and a brief description of the activities. They also include changes to the narrative which describes the project in more detail, provides operating data from the CEMS demonstrating that the unit can currently operate at well above the 90% level for both megawatts generated and heat input. Finally, the documents include the results form the most recent compliance stack test

P.O. Box 147117, Station A136, Gainesville, Florida 32614-7117, Phone: (352) 334-3400 ext. 1260 Fax: (352) 334-3151

performed in June of 2008 showing compliance with SO_2, NO_X, particulates, and visible emissions permit limits.

GRU greatly appreciates the Department's assistance with the processing of this amendment. If you have any questions, please contact me by phone at (352) 393-1283, by e-mail at klemansrw@gru.com or at the address at the bottom of the first page of this letter.

Sincerely,

Robert W. Klemans

Robert W. Klemans, P.E.
Supervising Utility Engineer

RWK

Attachments

cc (email): J. Stanton
E. Regan
S. Manasco
D. Moffett
M. Jones
Y. Jonynas
T. Davis (ECT)
R. Embry
B. Hoang

file: DHNSR
A 4.2 – Air Correspondence

C:\Documents and Settings\klemansrw\My Documents\WINWORD\LETTERS\ltr to J Koerner mod of DH AQCS AC permit for superheater replacement.doc

FDEP APPLICATION FOR
AIR PERMIT – LONG FORM

Department of Environmental Protection

Division of Air Resource Management

RECEIVED
FEB 25 2009
BUREAU OF AIR REGULATION

APPLICATION FOR AIR PERMIT - LONG FORM

I. APPLICATION INFORMATION

Air Construction Permit – Use this form to apply for an air construction permit:

- For any required purpose at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air operation permit;
- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment new source review, or maximum achievable control technology (MACT);
- To assume a restriction on the potential emissions of one or more pollutants to escape a requirement such as PSD review, nonattainment new source review, MACT, or Title V; or
- To establish, revise, or renew a plantwide applicability limit (PAL).

Air Operation Permit – Use this form to apply for:

- An initial federally enforceable state air operation permit (FESOP); or
- An initial, revised, or renewal Title V air operation permit.

To ensure accuracy, please see form instructions.

Identification of Facility

1. Facility Owner/Company Name: **City of Gainesville, GRU**	
2. Site Name: **Deerhaven Generating Station**	
3. Facility Identification Number: **0010006**	
4. Facility Location... Street Address or Other Locator: **10001 NW 13th Street** City: **Gainesville** County: **Alachua** Zip Code: **32653**	
5. Relocatable Facility? ☐ Yes ☒ No	6. Existing Title V Permitted Facility? ☒ Yes ☐ No

Application Contact

1. Application Contact Name: **Robert W. Klemans, P.E.**
2. Application Contact Mailing Address... Organization/Firm: **City of Gainesville, GRU** Street Address: **P.O. Box 147117 (A136)** City: **Gainesville** State: **FL** Zip Code: **32614-7117**
3. Application Contact Telephone Numbers... Telephone: **(352) 393-1283** ext. Fax: **(352) 334-3151**
4. Application Contact Email Address: **klemansrw@gru.com**

Application Processing Information (DEP Use)

1. Date of Receipt of Application: 2/25/09	3. PSD Number (if applicable):
2. Project Number(s): 0010006-009-AC	4. Siting Number (if applicable):

APPLICATION INFORMATION

Purpose of Application

This application for air permit is being submitted to obtain: (Check one)

Air Construction Permit

☒ Air construction permit.

☐ Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL).

☐ Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL), and separate air construction permit to authorize construction or modification of one or more emissions units covered by the PAL.

Air Operation Permit

☐ Initial Title V air operation permit.

☐ Title V air operation permit revision.

☐ Title V air operation permit renewal.

☐ Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required.

☐ Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit (Concurrent Processing)

☐ Air construction permit and Title V permit revision, incorporating the proposed project.

☐ Air construction permit and Title V permit renewal, incorporating the proposed project.

Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box:

☐ I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.

Application Comment

The DGS Unit 2 AQCS retrofit project includes upgrades to the existing Unit 2 steam turbine, use of a bituminous coal with higher sulfur content than is currently being used, replacement of the primary superheater, and installation of the following emission control systems:

- **Selective catalytic reduction (SCR) system to reduce nitrogen oxides (NO_x) emissions;**
- **A circulating dry scrubber (CDS) to reduce sulfur dioxide (SO_2) emissions;**
- **Fabric filter (FF) to reduce particulate matter (PM) emissions. The fabric filter is an integral part of the CDS; and**
- **Ancillary support equipment including new material (urea, lime, hydrated lime, and CDS by-product) handling and storage.**

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Processing Fee
005	2,428 MMBtu/hr Steam Boiler No. 2	N/A	N/A
009	Lime, Hydrated Lime, and Dry Circulating Scrubber By-Product Handling and Storage Activities	N/A	N/A

Application Processing Fee

Check one: ☐ Attached - Amount: $_____ ☒ Not Applicable

Owner/Authorized Representative Statement

Complete if applying for an air construction permit or an initial FESOP.

1. Owner/Authorized Representative Name :
   Daniel W. Moffett, Plant Manager

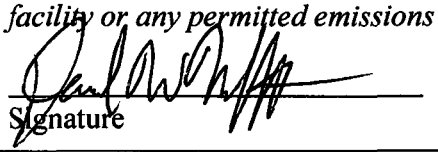
2. Owner/Authorized Representative Mailing Address...
   Organization/Firm: **City of Gainesville, GRU**
   Street Address: **P.O. Box 147117 (A136)**
   City: **Gainesville** State: **FL** Zip Code: **32614-7117**

3. Owner/Authorized Representative Telephone Numbers...
   Telephone: **(352) 393-6240** ext. Fax: **(352) 334-3151**

4. Owner/Authorized Representative Email Address: **moffettdw@gru.com**

5. Owner/Authorized Representative Statement:

   I, the undersigned, am the owner or authorized representative of the facility addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other requirements identified in this application to which the facility is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit.



Signature

2/24/09

Date

Application Responsible Official Certification **N/A**

Complete if applying for an initial, revised, or renewal Title V air operation permit or concurrent processing of an air construction permit and revised or renewal Title V air operation permit. If there are multiple responsible officials, the "application responsible official" need not be the "primary responsible official."

1. Application Responsible Official Name:

2. Application Responsible Official Qualification (Check one or more of the following options, as applicable):

☐ For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C.

☐ For a partnership or sole proprietorship, a general partner or the proprietor, respectively.

☐ For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official.

☐ The designated representative at an Acid Rain source, CAIR source, or Hg Budget source.

3. Application Responsible Official Mailing Address...
Organization/Firm:
Street Address:
City: State: Zip Code:

4. Application Responsible Official Telephone Numbers...
Telephone: ( ) ext. Fax: ( )

5. Application Responsible Official E-mail Address:

6. Application Responsible Official Certification:

I, the undersigned, am a responsible official of the Title V source addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other applicable requirements identified in this application to which the Title V source is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit. Finally, I certify that the facility and each emissions unit are in compliance with all applicable requirements to which they are subject, except as identified in compliance plan(s) submitted with this application.

_____ _____
Signature Date

Professional Engineer Certification

1. Professional Engineer Name: **Thomas W. Davis**
   Registration Number: **36777**
2. Professional Engineer Mailing Address...
   Organization/Firm: **Environmental Consulting & Technology, Inc.**
   Street Address: **3701 Northwest 98th Street**
   City: **Gainesville** State: **Florida** Zip Code: **32606-5004**
3. Professional Engineer Telephone Numbers...
   Telephone: **(352) 332 – 0444** ext. Fax: **(352) 332 - 6722**
4. Professional Engineer Email Address: **tdavis@ectinc.com**
5. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

(3) If the purpose of this application is to obtain a Title V air operation permit (check here ☐, if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application.

(4) If the purpose of this application is to obtain an air construction permit (check here ☒, if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here ☐, if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here ☒, if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Signature 2/24/09
Date

(seal)

* Attach any exception to certification statement.

REVISED SECTION 3.0
PROJECT OVERVIEW

REVISED SECTION 6.0
NEW SOURCE REVIEW APPLICABILITY

3.0 PROJECT OVERVIEW

The DGS Unit 2 AQCS retrofit project includes the installation of emission control systems, upgrade to the existing Unit 2 steam turbine, use of a bituminous coal with higher sulfur content than is currently being used, and replacement of the primary superheater. A detailed description of the proposed emission control systems is provided in Section 4.0 of this report. Discussions of the steam turbine upgrade, proposed fuels, and primary superheater replacement are provided in the following sections.

3.1 STEAM TURBINE UPGRADE

Concurrent with the AQCS project, the Unit 2 steam turbine will be upgraded by replacing the high- and intermediate pressure rotors along with the associated stationary elements. The stream turbine upgrade will increase the efficiency of the steam turbine in order to recover power lost due to the parasitic load associated with the AQCS.

There will be no changes to the existing electrical generator (i.e., no expansion in steam generating capacity) and no increase in maximum heat input to the boiler or steam flow capability of the turbine. Likewise, the capacity factor of Unit 2 will not increase as a result of the steam turbine upgrade since Unit 2 is a base load unit.

3.2 FUELS

DGS Unit 2 is currently fired with low sulfur eastern bituminous coal to comply with the SO_2 emission limitations of New Source Performance Standard Subpart D, Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971.

Following installation and operation of the AQCS, Unit 2 will be capable of firing a variety of eastern bituminous coal blends, including medium sulfur coal, and comply with the NSPS Subpart D, CAIR, and CAMR requirements, as well as achieving significant reductions in actual SO_2 emissions. Accordingly, the Unit 2 AQCS project will provide the flexibility to burn a blend of coals up to a medium sulfur coal.

3.3 PRIMARY SUPERHEATER REPLACEMENT

Concurrent with the AQCS project, the Unit 2 primary superheater will be replaced. This replacement will have the same surface area as the original, use the same size and grade of tubing as the original, and have the same shape as the original. The replacement will not cause an increase in steam production, will not change the combustion characteristics of the boiler, and will not cause an increase in the utilization or capacity factor of Unit 2 since it is a base load unit.

6.0 NEW SOURCE REVIEW APPLICABILITY

The existing DGS is located in an attainment area and is classified as a *major facility*. A modification to an existing major facility located in an attainment area which has a net emissions increase equal to or exceeding the significant emission rates listed in Rule 62-210.200(277), F.A.C., will be subject to PSD NSR.

For changes to existing emission units, such as the DGS Unit 2 AQCS, the determination of a net emission increase is based on a comparison of actual-to-projected actual emission rates. A significant emissions increase of a PSD pollutant will occur if the difference between the *baseline actual emissions* and *projected actual emissions* equals or exceeds the significant emissions rate for that pollutant. As defined by Rule 62-210.200(36), F.A.C., baseline actual emissions for an existing electric utility steam generating unit means the average rate, in tons per year, at which the unit actually emitted the pollutant during any consecutive 24-month period selected by the owner or operator within the 5-year period immediately preceding the date a complete permit application is received by FDEP. Baseline actual emissions include fugitive emissions, to the extent quantifiable, as well as emissions associated with startups and shutdowns.

Projected actual emissions, as defined by Rule 62-210.200(247), F.A.C., means the maximum annual rate, in tons per year, at which an existing emissions unit is projected to emit a PSD pollutant in any one of the 5 years following the date the unit resumes regular operation after the project, or in any one of the 10 years following that date, if the project involves increasing the emissions unit's design capacity or its potential to emit that PSD pollutant and full utilization of the unit would result in a significant emissions increase or a significant net emissions increase at the major stationary source. Emissions that the unit could have accommodated during the 24-month baseline period and that are unrelated to the modification are excluded. As noted previously in Section 3.1, there will be no increase in maximum heat input to the boiler or steam flow capability of the turbine. As noted previously in Section 3.3, the primary superheater replacement will result in no increase in steam production and no change in the combustion characteristics of the boiler. Since DGS Unit 2 is a base load unit, there will also be no change in Unit 2

utilization (i.e., capacity factor) due to the AQCS project and associated subprojects. Accordingly, the applicable period for determining projected actual emissions for the DGS Unit 2 AQCS project is the 5 years following installation of the additional emission controls.

The DGS Unit 2 AQCS project will result in substantial reductions in actual emissions of NO_x, SO_2, PM/PM_{10}, fluorides (i.e., HF) and H_2SO_4. No changes are planned to the DGS Unit 2 combustion process. Accordingly, no change in actual emissions of combustion related pollutants (i.e., CO and VOC) will result due to the AQCS project. Discussions of baseline actual emissions and projected actual emissions are provided in the following sections.

6.1 BASELINE ACTUAL EMISSIONS

As an ARP affected emission unit, DGS Unit 2 is equipped with CEMS for measuring SO_2, NO_x, CO_2, and opacity. The ARP CEMS data was used to develop baseline actual emissions for SO_2 and NO_x. GRU conducts annual stack testing of DGS Unit 2 for filterable PM using EPA Reference Method 5. This stack test data (i.e., the average emission rate in $lb/10^6$ MMBtu) together with the annual heat input was used to develop baseline actual emissions for PM. Baseline actual emissions of Hg and the PSD acid gases (i.e., HF and H_2SO_4) were developed using GRU emission estimates prepared pursuant to the Toxic Release Inventory (TRI) regulatory program.

6.2 PROJECTED ACTUAL EMISSIONS

As noted previously, there will be no change in DGS Unit 2 utilization due to the AQCS Project and associated subprojects. Projected DGS Unit 2 actual annual emissions during the 5 year period following installation of the AQCS for SO_2, NO_x, and PM were estimated using the AQCS target emission rates (in units of $lb/10^6$ Btu) previously shown in Section 5.0 and the highest DGS Unit 2 heat input over the 2002 to 2006 period (i.e., the 2006 heat input). The projected actual emissions also include PM/PM_{10} emissions associated with the AQCS material handling activities. As previously noted in Section 5.3, the final residue of the CDS process is a dry product which may be landfilled or potentially re-utilized. If landfilled onsite, approximately nine trucks per day will

transport the CDS byproduct to the onsite landfill. Fugitive PM/PM_{10} emissions associated with this activity will be negligible.

DGS Unit 2 currently combusts coal containing approximately 0.8 weight percent sulfur to comply with the requirements of NSPS Subpart D. As noted in Section 3.2, a blend of coals, including medium sulfur coal, may be combusted in the future following installation of the AQCS project. The DGS Unit 2 AQCS will be capable of removing over 90 percent of H_2SO_4 and HF. Projected actual emissions of H_2SO_4 were conservatively estimated by applying a ratio of 3.125 to the historical 2-year (2005 to 2006) average actual H_2SO_4 emission rate and applying the AQCS H_2SO_4 removal efficiency of 90 percent. The 3.125 ratio represents the use of medium sulfur coal containing 2.5 weight percent sulfur compared to the current coal sulfur content of 0.8 weight percent. No significant changes in coal fluoride or mercury contents are expected. Accordingly, projected actual emissions of HF and Hg were estimated using the historical 2 year (2005 to 2006) average actual HF and Hg emission rates and applying AQCS removal efficiencies of 90 percent (for HF) and 80 percent (for Hg).

Table 6-1 provides a summary of baseline and projected actual emission rates. Details of the GRU DGS Unit 2 PM stack test data are provided in Table 6-2. As shown in Table 6-1, there will be a net reduction in all PSD pollutants due to the DGS Unit 2 AQCS. Accordingly, the DGS Unit 2 AQCS project is not subject to PSD NSR.

Table 6-3 documents the operation of Unit 2 from September 1, 2008 through February 19, 2009. Specifically, Table 6-3 shows that Unit 2 has operated well above the 90 percent level for both gross megawatts generated and heat input. Additionally, at these "full load" operational levels, Table 6-3 demonstrates compliance with SO_2 and NO_x permit limits.

Attachment SH contains the results of the last compliance test that was performed in June of 2008. These test results demonstrate that Unit 2 emissions were in compliance with the SO_2, NO_x, PM, and visible emission permit limits.

TABLE 6-3

UNIT 2 OPERATIONAL DATA

Table 6-3

Gainesville Regional Utilities
Deerhaven Unit 2 Operational Data
September 1, 2008 through February 19, 2009

Date	Hour	Hourly Generation MW (gross)	Last 5 Years "Maximum" Generation MW (gross)	Generation Fraction %	Hourly Heat Input MMBtu/hr	Permit "Maximum" Heat Input MMBtu/hr	Heat Input Fraction %	3-Hour Average SO_2 lb/MMBtu	3-Hour Avg. Limit SO_2 lb/MMBtu	3-Hour Average NO_X lb/MMBtu	3-Hour Avg. Limit NO_X lb/MMBtu
01-Sep-08	8	230.1	238.5	96.5%	2,292	2,428	94.4%	1.1	1.2	0.44	0.68
01-Sep-08	9	234.6	238.5	98.4%	2,328	2,428	95.9%	1.1	1.2	0.45	0.68
01-Sep-08	10	234.6	238.5	98.4%	2,330	2,428	96.0%	1.1	1.2	0.46	0.69
01-Sep-08	11	234.6	238.5	98.4%	2,306	2,428	95.0%	1.1	1.2	0.47	0.69
01-Sep-08	12	234.6	238.5	98.4%	2,327	2,428	95.8%	1.1	1.2	0.47	0.69
01-Sep-08	13	234.6	238.5	98.4%	2,253	2,428	92.8%	1.1	1.2	0.47	0.69
01-Sep-08	14	234.6	238.5	98.4%	2,316	2,428	95.4%	1.1	1.2	0.47	0.69
01-Sep-08	15	234.6	238.5	98.4%	2,322	2,428	95.6%	1.1	1.2	0.47	0.69
01-Sep-08	16	234.6	238.5	98.4%	2,312	2,428	95.2%	1.1	1.2	0.47	0.69
01-Sep-08	17	234.6	238.5	98.4%	2,318	2,428	95.5%	1.1	1.2	0.47	0.69
02-Sep-08	14	234.7	238.5	98.4%	2,326	2,428	95.8%	1.1	1.2	0.45	0.69
02-Sep-08	15	234.4	238.5	98.3%	2,314	2,428	95.3%	1.1	1.2	0.45	0.69
04-Sep-08	9	233.5	238.5	97.9%	2,324	2,428	95.7%	1.0	1.2	0.45	0.68
04-Sep-08	10	234.6	238.5	98.4%	2,315	2,428	95.4%	1.0	1.2	0.45	0.68
04-Sep-08	11	234.6	238.5	98.4%	2,314	2,428	95.3%	1.0	1.2	0.46	0.68
04-Sep-08	12	234.6	238.5	98.4%	2,308	2,428	95.1%	1.0	1.2	0.46	0.68
04-Sep-08	13	234.7	238.5	98.4%	2,262	2,428	93.2%	1.0	1.2	0.47	0.68
04-Sep-08	14	234.5	238.5	98.3%	2,328	2,428	95.9%	1.0	1.2	0.47	0.68
04-Sep-08	15	234.6	238.5	98.4%	2,312	2,428	95.2%	1.0	1.2	0.47	0.68
04-Sep-08	16	234.6	238.5	98.4%	2,327	2,428	95.8%	1.0	1.2	0.47	0.68
04-Sep-08	17	234.6	238.5	98.4%	2,313	2,428	95.3%	1.0	1.2	0.47	0.68
04-Sep-08	18	234.6	238.5	98.4%	2,312	2,428	95.2%	1.0	1.2	0.48	0.68
04-Sep-08	19	234.6	238.5	98.4%	2,234	2,428	92.0%	1.0	1.2	0.48	0.68
05-Sep-08	10	235.1	238.5	98.6%	2,300	2,428	94.7%	1.0	1.2	0.45	0.68
05-Sep-08	11	235.1	238.5	98.6%	2,310	2,428	95.1%	1.0	1.2	0.45	0.68
05-Sep-08	12	235.1	238.5	98.6%	2,296	2,428	94.5%	1.0	1.2	0.45	0.68
05-Sep-08	13	235.1	238.5	98.6%	2,238	2,428	92.2%	1.0	1.2	0.46	0.68
05-Sep-08	14	235.1	238.5	98.6%	2,290	2,428	94.3%	1.0	1.2	0.46	0.68
05-Sep-08	15	235.1	238.5	98.6%	2,313	2,428	95.3%	1.0	1.2	0.46	0.68
05-Sep-08	16	235.1	238.5	98.6%	2,308	2,428	95.0%	1.0	1.2	0.46	0.68
05-Sep-08	17	235.1	238.5	98.6%	2,307	2,428	95.0%	1.0	1.2	0.46	0.68
05-Sep-08	18	235.1	238.5	98.6%	2,319	2,428	95.5%	1.0	1.2	0.46	0.68
05-Sep-08	19	235.1	238.5	98.6%	2,257	2,428	93.0%	1.0	1.2	0.45	0.68
05-Sep-08	20	235.1	238.5	98.6%	2,345	2,428	96.6%	1.0	1.2	0.46	0.68
05-Sep-08	21	235.1	238.5	98.6%	2,364	2,428	97.4%	1.0	1.2	0.46	0.68
06-Sep-08	10	234.3	238.5	98.2%	2,326	2,428	95.8%	1.0	1.2	0.46	0.68
06-Sep-08	11	234.3	238.5	98.2%	2,329	2,428	95.9%	1.0	1.2	0.45	0.68
06-Sep-08	12	234.3	238.5	98.2%	2,324	2,428	95.7%	1.0	1.2	0.46	0.68
06-Sep-08	13	234.3	238.5	98.2%	2,261	2,428	93.1%	1.0	1.2	0.46	0.68
06-Sep-08	14	234.3	238.5	98.2%	2,326	2,428	95.8%	1.0	1.2	0.46	0.69
06-Sep-08	15	234.4	238.5	98.3%	2,332	2,428	96.0%	1.0	1.2	0.46	0.69
06-Sep-08	16	234.3	238.5	98.2%	2,322	2,428	95.6%	1.0	1.2	0.46	0.69
06-Sep-08	17	234.3	238.5	98.2%	2,329	2,428	95.9%	1.0	1.2	0.45	0.68
06-Sep-08	18	234.4	238.5	98.3%	2,366	2,428	97.4%	1.0	1.2	0.46	0.68
06-Sep-08	19	234.3	238.5	98.2%	2,317	2,428	95.4%	1.0	1.2	0.45	0.68
06-Sep-08	20	230.1	238.5	96.5%	2,331	2,428	96.0%	1.0	1.2	0.44	0.68
15-Sep-08	20	235.0	238.5	98.5%	2,368	2,428	97.5%	1.0	1.2	0.45	0.67

Table 6-3

Gainesville Regional Utilities
Deerhaven Unit 2 Operational Data
September 1, 2008 through February 19, 2009

Date	Hour	Hourly Generation MW (gross)	Last 5 Years "Maximum" Generation MW (gross)	Generation Fraction %	Hourly Heat Input MMBtu/hr	Permit "Maximum" Heat Input MMBtu/hr	Heat Input Fraction %	3-Hour Average SO_2 lb/MMBtu	3-Hour Avg. Limit SO_2 lb/MMBtu	3-Hour Average NO_x lb/MMBtu	3-Hour Avg. Limit NO_x lb/MMBtu
15-Sep-08	21	235.0	238.5	98.5%	2,364	2,428	97.4%	1.0	1.2	0.48	0.68
16-Sep-08	10	233.7	238.5	98.0%	2,315	2,428	95.3%	0.9	1.2	0.43	0.68
16-Sep-08	11	235.0	238.5	98.5%	2,323	2,428	95.7%	1.0	1.2	0.44	0.68
16-Sep-08	12	235.0	238.5	98.5%	2,334	2,428	96.1%	1.0	1.2	0.45	0.68
16-Sep-08	13	235.1	238.5	98.6%	2,278	2,428	93.8%	1.0	1.2	0.46	0.68
16-Sep-08	14	235.0	238.5	98.5%	2,330	2,428	95.9%	1.0	1.2	0.46	0.68
16-Sep-08	15	235.1	238.5	98.6%	2,332	2,428	96.1%	1.0	1.2	0.46	0.68
16-Sep-08	16	235.0	238.5	98.5%	2,326	2,428	95.8%	1.0	1.2	0.45	0.68
16-Sep-08	17	235.0	238.5	98.5%	2,340	2,428	96.4%	1.0	1.2	0.46	0.69
16-Sep-08	18	235.0	238.5	98.5%	2,315	2,428	95.4%	1.0	1.2	0.47	0.69
16-Sep-08	19	235.0	238.5	98.5%	2,256	2,428	92.9%	1.0	1.2	0.47	0.69
17-Sep-08	13	234.3	238.5	98.2%	2,275	2,428	93.7%	1.0	1.2	0.43	0.68
17-Sep-08	14	234.2	238.5	98.2%	2,321	2,428	95.6%	1.0	1.2	0.44	0.68
17-Sep-08	20	231.0	238.5	96.9%	2,276	2,428	93.7%	1.0	1.2	0.45	0.69
18-Sep-08	10	233.1	238.5	97.7%	2,343	2,428	96.5%	1.0	1.2	0.48	0.68
18-Sep-08	11	233.7	238.5	98.0%	2,313	2,428	95.3%	1.0	1.2	0.49	0.69
18-Sep-08	12	233.8	238.5	98.0%	2,330	2,428	96.0%	1.0	1.2	0.51	0.69
18-Sep-08	13	234.0	238.5	98.1%	2,271	2,428	93.6%	1.0	1.2	0.51	0.69
18-Sep-08	14	233.5	238.5	97.9%	2,325	2,428	95.8%	1.0	1.2	0.51	0.69
18-Sep-08	18	234.7	238.5	98.4%	2,313	2,428	95.3%	1.1	1.2	0.51	0.69
18-Sep-08	19	235.0	238.5	98.5%	2,276	2,428	93.7%	1.1	1.2	0.51	0.69
18-Sep-08	20	235.0	238.5	98.5%	2,315	2,428	95.4%	1.1	1.2	0.51	0.69
19-Sep-08	12	234.4	238.5	98.3%	2,334	2,428	96.1%	1.0	1.2	0.46	0.68
19-Sep-08	13	234.4	238.5	98.3%	2,268	2,428	93.4%	1.0	1.2	0.47	0.68
19-Sep-08	14	234.4	238.5	98.3%	2,322	2,428	95.6%	1.0	1.2	0.47	0.68
19-Sep-08	15	234.4	238.5	98.3%	2,340	2,428	96.4%	1.0	1.2	0.48	0.69
19-Sep-08	16	234.4	238.5	98.3%	2,330	2,428	96.0%	1.1	1.2	0.49	0.69
19-Sep-08	17	234.4	238.5	98.3%	2,341	2,428	96.4%	1.1	1.2	0.50	0.69
19-Sep-08	18	234.4	238.5	98.3%	2,318	2,428	95.5%	1.1	1.2	0.50	0.69
19-Sep-08	19	234.4	238.5	98.3%	2,262	2,428	93.1%	1.1	1.2	0.50	0.69
19-Sep-08	20	233.3	238.5	97.8%	2,311	2,428	95.2%	1.1	1.2	0.49	0.69
20-Sep-08	10	234.2	238.5	98.2%	2,342	2,428	96.5%	1.0	1.2	0.48	0.69
20-Sep-08	12	234.6	238.5	98.4%	2,332	2,428	96.1%	1.0	1.2	0.49	0.69
20-Sep-08	13	235.0	238.5	98.5%	2,290	2,428	94.3%	1.0	1.2	0.49	0.69
20-Sep-08	14	235.0	238.5	98.5%	2,356	2,428	97.0%	1.0	1.2	0.49	0.69
20-Sep-08	15	235.0	238.5	98.5%	2,354	2,428	96.9%	1.0	1.2	0.49	0.69
20-Sep-08	16	235.0	238.5	98.5%	2,345	2,428	96.6%	1.0	1.2	0.49	0.69
20-Sep-08	17	230.5	238.5	96.6%	2,303	2,428	94.9%	1.0	1.2	0.49	0.69
21-Sep-08	12	234.2	238.5	98.2%	2,395	2,428	98.6%	0.9	1.2	0.47	0.69
21-Sep-08	13	235.0	238.5	98.5%	2,320	2,428	95.6%	1.0	1.2	0.48	0.69
21-Sep-08	14	235.0	238.5	98.5%	2,373	2,428	97.7%	1.0	1.2	0.48	0.69
21-Sep-08	15	235.0	238.5	98.5%	2,376	2,428	97.8%	1.0	1.2	0.48	0.69
21-Sep-08	16	235.0	238.5	98.5%	2,371	2,428	97.7%	1.0	1.2	0.48	0.69
21-Sep-08	17	235.0	238.5	98.5%	2,365	2,428	97.4%	1.0	1.2	0.48	0.69
21-Sep-08	18	235.0	238.5	98.5%	2,370	2,428	97.6%	1.0	1.2	0.48	0.69
21-Sep-08	19	235.0	238.5	98.5%	2,300	2,428	94.7%	1.0	1.2	0.48	0.69
21-Sep-08	20	235.0	238.5	98.5%	2,366	2,428	97.4%	1.0	1.2	0.48	0.69

Table 6-3

Gainesville Regional Utilities
Deerhaven Unit 2 Operational Data
September 1, 2008 through February 19, 2009

Date	Hour	Hourly Generation MW (gross)	Last 5 Years "Maximum" Generation MW (gross)	Generation Fraction %	Hourly Heat Input MMBtu/hr	Permit "Maximum" Heat Input MMBtu/hr	Heat Input Fraction %	3-Hour Average SO_2 lb/MMBtu	3-Hour Avg. Limit SO_2 lb/MMBtu	3-Hour Average NO_x lb/MMBtu	3-Hour Avg. Limit NO_x lb/MMBtu
21-Sep-08	21	232.3	238.5	97.4%	2,337	2,428	96.2%	1.0	1.2	0.47	0.69
22-Sep-08	18	230.4	238.5	96.6%	2,321	2,428	95.6%	0.9	1.2	0.48	0.69
22-Sep-08	19	235.0	238.5	98.5%	2,304	2,428	94.9%	0.9	1.2	0.48	0.69
22-Sep-08	20	233.9	238.5	98.1%	2,347	2,428	96.7%	0.9	1.2	0.48	0.69
23-Sep-08	11	230.5	238.5	96.6%	2,353	2,428	96.9%	1.0	1.2	0.52	0.69
23-Sep-08	14	232.8	238.5	97.6%	2,349	2,428	96.8%	1.1	1.2	0.53	0.69
23-Sep-08	15	233.0	238.5	97.7%	2,351	2,428	96.8%	1.1	1.2	0.53	0.69
23-Sep-08	18	231.4	238.5	97.0%	2,312	2,428	95.2%	1.1	1.2	0.53	0.69
23-Sep-08	19	233.3	238.5	97.8%	2,281	2,428	93.9%	1.1	1.2	0.54	0.69
23-Sep-08	20	232.9	238.5	97.7%	2,333	2,428	96.1%	1.1	1.2	0.54	0.69
25-Sep-08	15	230.3	238.5	96.6%	2,328	2,428	95.9%	1.0	1.2	0.50	0.69
26-Sep-08	14	234.4	238.5	98.3%	2,329	2,428	95.9%	1.0	1.2	0.49	0.69
26-Sep-08	15	234.4	238.5	98.3%	2,331	2,428	96.0%	1.0	1.2	0.49	0.69
26-Sep-08	16	234.4	238.5	98.3%	2,326	2,428	95.8%	1.0	1.2	0.50	0.69
26-Sep-08	17	234.4	238.5	98.3%	2,317	2,428	95.4%	1.0	1.2	0.49	0.69
26-Sep-08	18	234.4	238.5	98.3%	2,313	2,428	95.3%	1.0	1.2	0.50	0.69
26-Sep-08	19	233.0	238.5	97.7%	2,248	2,428	92.6%	1.0	1.2	0.50	0.69
27-Sep-08	15	232.3	238.5	97.4%	2,327	2,428	95.8%	1.0	1.2	0.47	0.69
27-Sep-08	16	233.4	238.5	97.9%	2,323	2,428	95.7%	1.0	1.2	0.48	0.69
27-Sep-08	17	233.5	238.5	97.9%	2,311	2,428	95.2%	1.0	1.2	0.48	0.69
27-Sep-08	18	233.5	238.5	97.9%	2,314	2,428	95.3%	1.0	1.2	0.48	0.69
27-Sep-08	19	233.5	238.5	97.9%	2,252	2,428	92.8%	1.0	1.2	0.48	0.69
27-Sep-08	20	230.1	238.5	96.5%	2,266	2,428	93.3%	1.0	1.2	0.48	0.69
28-Sep-08	13	234.0	238.5	98.1%	2,276	2,428	93.8%	1.0	1.2	0.45	0.68
28-Sep-08	14	234.0	238.5	98.1%	2,345	2,428	96.6%	1.0	1.2	0.46	0.69
29-Sep-08	11	234.4	238.5	98.3%	2,363	2,428	97.3%	1.1	1.2	0.49	0.69
29-Sep-08	12	234.6	238.5	98.4%	2,366	2,428	97.4%	1.1	1.2	0.50	0.69
29-Sep-08	13	234.6	238.5	98.4%	2,291	2,428	94.4%	1.1	1.2	0.51	0.69
29-Sep-08	14	234.6	238.5	98.4%	2,353	2,428	96.9%	1.1	1.2	0.51	0.69
29-Sep-08	15	234.6	238.5	98.4%	2,346	2,428	96.6%	1.1	1.2	0.51	0.69
29-Sep-08	16	234.6	238.5	98.4%	2,346	2,428	96.6%	1.1	1.2	0.51	0.69
29-Sep-08	17	234.5	238.5	98.3%	2,337	2,428	96.2%	1.1	1.2	0.51	0.69
29-Sep-08	18	234.6	238.5	98.4%	2,341	2,428	96.4%	1.1	1.2	0.51	0.69
29-Sep-08	19	234.6	238.5	98.4%	2,271	2,428	93.5%	1.1	1.2	0.50	0.69
29-Sep-08	20	234.6	238.5	98.4%	2,327	2,428	95.9%	1.1	1.2	0.49	0.69
29-Sep-08	21	234.6	238.5	98.4%	2,327	2,428	95.8%	1.1	1.2	0.48	0.69
30-Sep-08	13	233.7	238.5	98.0%	2,265	2,428	93.3%	1.1	1.2	0.46	0.69
30-Sep-08	14	233.7	238.5	98.0%	2,318	2,428	95.5%	1.1	1.2	0.47	0.69
30-Sep-08	15	233.7	238.5	98.0%	2,324	2,428	95.7%	1.1	1.2	0.48	0.69
30-Sep-08	16	233.7	238.5	98.0%	2,327	2,428	95.8%	1.1	1.2	0.48	0.69
30-Sep-08	17	233.7	238.5	98.0%	2,325	2,428	95.7%	1.1	1.2	0.48	0.69
30-Sep-08	18	233.7	238.5	98.0%	2,321	2,428	95.6%	1.1	1.2	0.49	0.69
30-Sep-08	19	233.7	238.5	98.0%	2,249	2,428	92.6%	1.1	1.2	0.49	0.69
30-Sep-08	20	233.7	238.5	98.0%	2,299	2,428	94.7%	1.1	1.2	0.48	0.69
01-Oct-08	12	234.4	238.5	98.3%	2,320	2,428	95.6%	1.1	1.2	0.49	0.69
01-Oct-08	13	234.5	238.5	98.3%	2,262	2,428	93.2%	1.1	1.2	0.50	0.69
01-Oct-08	14	234.5	238.5	98.3%	2,317	2,428	95.4%	1.1	1.2	0.50	0.69

Table 6-3

Gainesville Regional Utilities
Deerhaven Unit 2 Operational Data
September 1, 2008 through February 19, 2009

Date	Hour	Hourly Generation MW (gross)	Last 5 Years "Maximum" Generation MW (gross)	Generation Fraction %	Hourly Heat Input MMBtu/hr	Permit "Maximum" Heat Input MMBtu/hr	Heat Input Fraction %	3-Hour Average SO_2 lb/MMBtu	3-Hour Avg. Limit SO_2 lb/MMBtu	3-Hour Average NO_X lb/MMBtu	3-Hour Avg. Limit NO_X lb/MMBtu
01-Oct-08	15	234.5	238.5	98.3%	2,312	2,428	95.2%	1.1	1.2	0.50	0.69
01-Oct-08	16	234.5	238.5	98.3%	2,313	2,428	95.3%	1.1	1.2	0.50	0.69
01-Oct-08	17	234.5	238.5	98.3%	2,310	2,428	95.1%	1.1	1.2	0.50	0.69
01-Oct-08	18	234.5	238.5	98.3%	2,292	2,428	94.4%	1.1	1.2	0.49	0.69
01-Oct-08	19	234.4	238.5	98.3%	2,238	2,428	92.2%	1.1	1.2	0.48	0.69
01-Oct-08	20	234.4	238.5	98.3%	2,283	2,428	94.0%	1.1	1.2	0.48	0.69
02-Oct-08	14	234.2	238.5	98.2%	2,324	2,428	95.7%	1.1	1.2	0.48	0.69
02-Oct-08	15	234.3	238.5	98.2%	2,317	2,428	95.4%	1.1	1.2	0.48	0.69
05-Oct-08	19	230.8	238.5	96.8%	2,220	2,428	91.4%	1.0	1.2	0.48	0.69
06-Oct-08	12	233.4	238.5	97.9%	2,380	2,428	98.0%	1.0	1.2	0.48	0.69
06-Oct-08	13	233.7	238.5	98.0%	2,310	2,428	95.2%	1.0	1.2	0.48	0.69
06-Oct-08	14	233.7	238.5	98.0%	2,376	2,428	97.9%	1.0	1.2	0.49	0.69
06-Oct-08	15	233.7	238.5	98.0%	2,382	2,428	98.1%	1.0	1.2	0.49	0.69
06-Oct-08	16	233.7	238.5	98.0%	2,374	2,428	97.8%	1.0	1.2	0.48	0.69
06-Oct-08	17	233.7	238.5	98.0%	2,364	2,428	97.4%	1.0	1.2	0.48	0.69
06-Oct-08	18	233.7	238.5	98.0%	2,368	2,428	97.5%	1.0	1.2	0.47	0.69
06-Oct-08	19	233.7	238.5	98.0%	2,297	2,428	94.6%	1.0	1.2	0.47	0.69
07-Oct-08	10	231.8	238.5	97.2%	2,362	2,428	97.3%	1.0	1.2	0.48	0.69
07-Oct-08	11	231.9	238.5	97.2%	2,369	2,428	97.6%	1.0	1.2	0.48	0.69
07-Oct-08	12	232.6	238.5	97.5%	2,377	2,428	97.9%	1.0	1.2	0.48	0.69
07-Oct-08	13	234.5	238.5	98.3%	2,340	2,428	96.4%	1.0	1.2	0.48	0.69
07-Oct-08	14	234.5	238.5	98.3%	2,391	2,428	98.5%	1.0	1.2	0.48	0.69
07-Oct-08	15	234.5	238.5	98.3%	2,390	2,428	98.4%	1.0	1.2	0.47	0.69
07-Oct-08	16	234.5	238.5	98.3%	2,388	2,428	98.3%	1.0	1.2	0.47	0.69
07-Oct-08	17	234.5	238.5	98.3%	2,374	2,428	97.8%	1.0	1.2	0.47	0.69
07-Oct-08	18	234.5	238.5	98.3%	2,384	2,428	98.2%	1.0	1.2	0.48	0.69
08-Oct-08	12	233.1	238.5	97.7%	2,375	2,428	97.8%	1.1	1.2	0.49	0.69
08-Oct-08	13	233.1	238.5	97.7%	2,307	2,428	95.0%	1.1	1.2	0.49	0.69
08-Oct-08	14	233.1	238.5	97.7%	2,360	2,428	97.2%	1.0	1.2	0.48	0.69
08-Oct-08	15	233.1	238.5	97.7%	2,394	2,428	98.6%	1.0	1.2	0.47	0.69
08-Oct-08	16	233.1	238.5	97.7%	2,379	2,428	98.0%	1.0	1.2	0.46	0.69
08-Oct-08	18	231.0	238.5	96.9%	2,317	2,428	95.4%	1.0	1.2	0.46	0.69
09-Oct-08	11	234.2	238.5	98.2%	2,388	2,428	98.4%	1.0	1.2	0.48	0.69
09-Oct-08	12	235.1	238.5	98.6%	2,390	2,428	98.4%	1.0	1.2	0.48	0.69
09-Oct-08	18	230.1	238.5	96.5%	2,322	2,428	95.6%	1.0	1.2	0.48	0.69
09-Oct-08	19	232.6	238.5	97.5%	2,291	2,428	94.4%	1.0	1.2	0.48	0.69
12-Oct-08	15	230.3	238.5	96.6%	2,392	2,428	98.5%	1.0	1.2	0.48	0.69
12-Oct-08	19	231.2	238.5	96.9%	2,299	2,428	94.7%	1.0	1.2	0.47	0.69
13-Oct-08	10	232.4	238.5	97.4%	2,409	2,428	99.2%	0.9	1.2	0.48	0.69
13-Oct-08	11	232.3	238.5	97.4%	2,418	2,428	99.6%	0.9	1.2	0.48	0.69
15-Oct-08	8	233.9	238.5	98.1%	2,387	2,428	98.3%	1.0	1.2	0.48	0.69
15-Oct-08	9	233.9	238.5	98.1%	2,388	2,428	98.3%	1.0	1.2	0.47	0.69
15-Oct-08	10	233.9	238.5	98.1%	2,390	2,428	98.4%	1.0	1.2	0.47	0.69
15-Oct-08	11	233.9	238.5	98.1%	2,386	2,428	98.3%	1.0	1.2	0.47	0.69
15-Oct-08	12	233.9	238.5	98.1%	2,402	2,428	98.9%	1.0	1.2	0.47	0.69
15-Oct-08	13	233.9	238.5	98.1%	2,342	2,428	96.4%	1.0	1.2	0.47	0.69
15-Oct-08	14	233.9	238.5	98.1%	2,393	2,428	98.5%	0.9	1.2	0.47	0.69

Table 6-3

Gainesville Regional Utilities
Deerhaven Unit 2 Operational Data
September 1, 2008 through February 19, 2009

Date	Hour	Hourly Generation MW (gross)	Last 5 Years "Maximum" Generation MW (gross)	Generation Fraction %	Hourly Heat Input MMBtu/hr	Permit "Maximum" Heat Input MMBtu/hr	Heat Input Fraction %	3-Hour Average SO_2 lb/MMBtu	3-Hour Avg. Limit SO_2 lb/MMBtu	3-Hour Average NO_x lb/MMBtu	3-Hour Avg. Limit NO_x lb/MMBtu
15-Oct-08	15	233.9	238.5	98.1%	2,377	2,428	97.9%	0.9	1.2	0.47	0.69
15-Oct-08	16	233.9	238.5	98.1%	2,380	2,428	98.0%	0.9	1.2	0.47	0.69
16-Oct-08	10	233.2	238.5	97.8%	2,382	2,428	98.1%	1.0	1.2	0.48	0.69
14-Nov-08	12	234.6	238.5	98.4%	2,350	2,428	96.8%	1.0	1.2	0.49	0.68
14-Nov-08	13	234.7	238.5	98.4%	2,287	2,428	94.2%	1.0	1.2	0.50	0.68
14-Nov-08	14	234.7	238.5	98.4%	2,347	2,428	96.6%	1.0	1.2	0.51	0.69
14-Nov-08	15	234.8	238.5	98.4%	2,331	2,428	96.0%	1.0	1.2	0.51	0.69
14-Nov-08	16	234.8	238.5	98.4%	2,318	2,428	95.4%	1.0	1.2	0.50	0.69
14-Nov-08	17	234.8	238.5	98.4%	2,319	2,428	95.5%	1.1	1.2	0.49	0.69
14-Nov-08	18	234.8	238.5	98.4%	2,311	2,428	95.2%	1.1	1.2	0.49	0.69
14-Nov-08	19	231.5	238.5	97.1%	2,221	2,428	91.5%	1.1	1.2	0.49	0.69
18-Nov-08	19	233.5	238.5	97.9%	2,282	2,428	94.0%	1.1	1.2	0.48	0.69
18-Nov-08	20	233.5	238.5	97.9%	2,324	2,428	95.7%	1.1	1.2	0.48	0.69
18-Nov-08	21	233.5	238.5	97.9%	2,325	2,428	95.8%	1.1	1.2	0.47	0.69
19-Nov-08	6	235.0	238.5	98.5%	2,268	2,428	93.4%	1.0	1.2	0.46	0.69
19-Nov-08	7	235.0	238.5	98.5%	2,289	2,428	94.3%	1.0	1.2	0.47	0.69
19-Nov-08	8	234.6	238.5	98.4%	2,284	2,428	94.1%	1.0	1.2	0.47	0.69
19-Nov-08	19	233.7	238.5	98.0%	2,308	2,428	95.1%	1.0	1.2	0.46	0.69
19-Nov-08	20	233.7	238.5	98.0%	2,364	2,428	97.4%	1.0	1.2	0.47	0.69
19-Nov-08	21	233.7	238.5	98.0%	2,348	2,428	96.7%	1.0	1.2	0.47	0.69
19-Nov-08	22	232.0	238.5	97.3%	2,340	2,428	96.4%	1.0	1.2	0.47	0.69
20-Nov-08	6	234.2	238.5	98.2%	2,354	2,428	96.9%	1.0	1.2	0.45	0.69
20-Nov-08	7	234.2	238.5	98.2%	2,352	2,428	96.9%	1.0	1.2	0.46	0.69
20-Nov-08	8	233.4	238.5	97.9%	2,370	2,428	97.6%	1.0	1.2	0.46	0.69
22-Nov-08	8	232.5	238.5	97.5%	2,339	2,428	96.3%	1.0	1.2	0.46	0.69
22-Nov-08	9	233.1	238.5	97.7%	2,395	2,428	98.7%	1.1	1.2	0.47	0.69
02-Dec-08	18	234.5	238.5	98.3%	2,393	2,428	98.6%	1.1	1.2	0.47	0.69
02-Dec-08	19	235.1	238.5	98.6%	2,329	2,428	95.9%	1.1	1.2	0.47	0.70
02-Dec-08	20	235.1	238.5	98.6%	2,383	2,428	98.2%	1.1	1.2	0.47	0.70
02-Dec-08	21	235.1	238.5	98.6%	2,375	2,428	97.8%	1.1	1.2	0.48	0.70
02-Dec-08	22	232.6	238.5	97.5%	2,358	2,428	97.1%	1.1	1.2	0.48	0.70
03-Dec-08	4	233.4	238.5	97.9%	2,384	2,428	98.2%	1.1	1.2	0.50	0.70
03-Dec-08	5	234.1	238.5	98.2%	2,227	2,428	91.7%	1.1	1.2	0.50	0.70
03-Dec-08	6	234.1	238.5	98.2%	2,389	2,428	98.4%	1.0	1.2	0.51	0.70
03-Dec-08	7	234.1	238.5	98.2%	2,385	2,428	98.2%	1.0	1.2	0.50	0.69
03-Dec-08	8	234.1	238.5	98.2%	2,398	2,428	98.8%	1.0	1.2	0.49	0.69
18-Dec-08	19	234.3	238.5	98.2%	2,234	2,428	92.0%	1.0	1.2	0.47	0.69
22-Dec-08	18	234.8	238.5	98.4%	2,338	2,428	96.3%	1.0	1.2	0.48	0.69
22-Dec-08	19	235.0	238.5	98.5%	2,279	2,428	93.9%	1.1	1.2	0.48	0.69
22-Dec-08	20	235.0	238.5	98.5%	2,331	2,428	96.0%	1.1	1.2	0.49	0.69
22-Dec-08	21	230.8	238.5	96.8%	2,261	2,428	93.1%	1.1	1.2	0.49	0.69
12-Jan-09	18	232.3	238.5	97.4%	2,317	2,428	95.4%	1.1	1.2	0.48	0.68
14-Jan-09	7	232.6	238.5	97.5%	2,319	2,428	95.5%	1.1	1.2	0.48	0.68
15-Jan-09	7	233.7	238.5	98.0%	2,315	2,428	95.3%	1.1	1.2	0.47	0.69
15-Jan-09	8	233.7	238.5	98.0%	2,315	2,428	95.4%	1.1	1.2	0.47	0.69
18-Jan-09	7	233.5	238.5	97.9%	2,289	2,428	94.3%	1.1	1.2	0.46	0.69
18-Jan-09	8	235.0	238.5	98.5%	2,322	2,428	95.6%	1.1	1.2	0.47	0.68

Table 6-3

Gainesville Regional Utilities
Deerhaven Unit 2 Operational Data
September 1, 2008 through February 19, 2009

Date	Hour	Hourly Generation MW (gross)	Last 5 Years "Maximum" Generation MW (gross)	Generation Fraction %	Hourly Heat Input MMBtu/hr	Permit "Maximum" Heat Input MMBtu/hr	Heat Input Fraction %	3-Hour Average SO_2 lb/MMBtu	3-Hour Avg. Limit SO_2 lb/MMBtu	3-Hour Average NO_x lb/MMBtu	3-Hour Avg. Limit NO_x lb/MMBtu
20-Jan-09	7	235.0	238.5	98.5%	2,279	2,428	93.9%	1.0	1.2	0.45	0.68
20-Jan-09	8	235.0	238.5	98.5%	2,251	2,428	92.7%	1.1	1.2	0.46	0.68
20-Jan-09	9	235.0	238.5	98.5%	2,274	2,428	93.6%	1.0	1.2	0.47	0.68
20-Jan-09	10	235.0	238.5	98.5%	2,255	2,428	92.9%	1.1	1.2	0.47	0.68
20-Jan-09	11	235.1	238.5	98.6%	2,257	2,428	92.9%	1.1	1.2	0.47	0.68
20-Jan-09	12	234.1	238.5	98.2%	2,251	2,428	92.7%	1.1	1.2	0.47	0.68
20-Jan-09	17	235.0	238.5	98.5%	2,311	2,428	95.2%	1.1	1.2	0.46	0.68
20-Jan-09	18	235.0	238.5	98.5%	2,321	2,428	95.6%	1.1	1.2	0.47	0.68
20-Jan-09	19	235.0	238.5	98.5%	2,254	2,428	92.8%	1.1	1.2	0.48	0.68
20-Jan-09	20	235.0	238.5	98.5%	2,323	2,428	95.7%	1.1	1.2	0.48	0.68
20-Jan-09	21	235.0	238.5	98.5%	2,322	2,428	95.6%	1.1	1.2	0.48	0.68
21-Jan-09	6	235.1	238.5	98.6%	2,277	2,428	93.8%	1.1	1.2	0.47	0.68
21-Jan-09	7	235.1	238.5	98.6%	2,274	2,428	93.7%	1.1	1.2	0.48	0.68
21-Jan-09	8	235.1	238.5	98.6%	2,232	2,428	91.9%	1.1	1.2	0.48	0.68
21-Jan-09	9	235.1	238.5	98.6%	2,264	2,428	93.2%	1.1	1.2	0.48	0.68
21-Jan-09	10	235.1	238.5	98.6%	2,191	2,428	90.3%	1.1	1.2	0.49	0.68
21-Jan-09	11	235.1	238.5	98.6%	2,238	2,428	92.2%	1.1	1.2	0.49	0.68
21-Jan-09	18	235.1	238.5	98.6%	2,316	2,428	95.4%	1.1	1.2	0.49	0.68
21-Jan-09	19	235.1	238.5	98.6%	2,235	2,428	92.1%	1.1	1.2	0.50	0.68
21-Jan-09	20	235.0	238.5	98.5%	2,287	2,428	94.2%	1.1	1.2	0.50	0.68
21-Jan-09	23	235.0	238.5	98.5%	2,302	2,428	94.8%	1.1	1.2	0.49	0.68
22-Jan-09	0	235.1	238.5	98.6%	2,307	2,428	95.0%	1.1	1.2	0.49	0.68
22-Jan-09	1	235.0	238.5	98.5%	2,245	2,428	92.5%	1.1	1.2	0.49	0.68
22-Jan-09	3	235.0	238.5	98.5%	2,306	2,428	95.0%	1.1	1.2	0.50	0.68
22-Jan-09	4	235.0	238.5	98.5%	2,309	2,428	95.1%	1.1	1.2	0.49	0.68
22-Jan-09	6	235.1	238.5	98.6%	2,298	2,428	94.6%	1.1	1.2	0.49	0.68
22-Jan-09	7	235.0	238.5	98.5%	2,323	2,428	95.7%	1.1	1.2	0.49	0.68
22-Jan-09	8	235.0	238.5	98.5%	2,312	2,428	95.2%	1.1	1.2	0.49	0.69
22-Jan-09	9	235.0	238.5	98.5%	2,323	2,428	95.7%	1.1	1.2	0.48	0.69
22-Jan-09	10	235.0	238.5	98.5%	2,328	2,428	95.9%	1.1	1.2	0.48	0.69
22-Jan-09	19	233.9	238.5	98.1%	2,278	2,428	93.8%	1.0	1.2	0.45	0.68
22-Jan-09	20	235.0	238.5	98.5%	2,330	2,428	96.0%	1.0	1.2	0.48	0.68
27-Jan-09	18	231.9	238.5	97.2%	2,200	2,428	90.6%	1.1	1.2	0.47	0.68
27-Jan-09	20	234.0	238.5	98.1%	2,213	2,428	91.1%	1.1	1.2	0.48	0.68
27-Jan-09	21	234.0	238.5	98.1%	2,217	2,428	91.3%	1.1	1.2	0.48	0.68
28-Jan-09	18	233.9	238.5	98.1%	2,204	2,428	90.8%	1.1	1.2	0.48	0.68
30-Jan-09	19	232.4	238.5	97.4%	2,248	2,428	92.6%	1.1	1.2	0.49	0.69
30-Jan-09	20	232.4	238.5	97.4%	2,310	2,428	95.1%	1.1	1.2	0.51	0.69
30-Jan-09	21	231.5	238.5	97.1%	2,300	2,428	94.7%	1.1	1.2	0.51	0.69
31-Jan-09	7	233.6	238.5	97.9%	2,294	2,428	94.5%	1.1	1.2	0.50	0.69
31-Jan-09	8	231.5	238.5	97.1%	2,274	2,428	93.6%	1.1	1.2	0.50	0.69
03-Feb-09	7	234.0	238.5	98.1%	2,243	2,428	92.4%	1.1	1.2	0.48	0.68
03-Feb-09	8	234.0	238.5	98.1%	2,237	2,428	92.1%	1.1	1.2	0.47	0.69
03-Feb-09	11	234.0	238.5	98.1%	2,270	2,428	93.5%	1.1	1.2	0.48	0.69
03-Feb-09	19	234.0	238.5	98.1%	2,221	2,428	91.5%	1.1	1.2	0.50	0.69
03-Feb-09	20	234.0	238.5	98.1%	2,273	2,428	93.6%	1.1	1.2	0.50	0.69
03-Feb-09	21	233.7	238.5	98.0%	2,271	2,428	93.5%	1.1	1.2	0.50	0.69

Table 6-3

Gainesville Regional Utilities
Deerhaven Unit 2 Operational Data
September 1, 2008 through February 19, 2009

Date	Hour	Hourly Generation MW (gross)	Last 5 Years "Maximum" Generation MW (gross)	Generation Fraction %	Hourly Heat Input MMBtu/hr	Permit "Maximum" Heat Input MMBtu/hr	Heat Input Fraction %	3-Hour Average SO_2 lb/MMBtu	3-Hour Avg. Limit SO_2 lb/MMBtu	3-Hour Average NO_x lb/MMBtu	3-Hour Avg. Limit NO_x lb/MMBtu
04-Feb-09	7	234.0	238.5	98.1%	2,294	2,428	94.5%	1.1	1.2	0.49	0.69
04-Feb-09	8	234.0	238.5	98.1%	2,276	2,428	93.8%	1.1	1.2	0.49	0.69
04-Feb-09	9	234.0	238.5	98.1%	2,257	2,428	92.9%	1.1	1.2	0.49	0.69
04-Feb-09	10	234.0	238.5	98.1%	2,258	2,428	93.0%	1.1	1.2	0.48	0.68
04-Feb-09	11	234.0	238.5	98.1%	2,237	2,428	92.1%	1.1	1.2	0.48	0.68
04-Feb-09	12	234.0	238.5	98.1%	2,257	2,428	93.0%	1.1	1.2	0.48	0.68
04-Feb-09	13	234.0	238.5	98.1%	2,211	2,428	91.0%	1.1	1.2	0.48	0.68
04-Feb-09	18	233.6	238.5	97.9%	2,260	2,428	93.1%	1.1	1.2	0.47	0.69
04-Feb-09	19	234.0	238.5	98.1%	2,194	2,428	90.4%	1.1	1.2	0.48	0.69
04-Feb-09	20	234.0	238.5	98.1%	2,265	2,428	93.3%	1.1	1.2	0.48	0.69
04-Feb-09	21	234.0	238.5	98.1%	2,250	2,428	92.6%	1.1	1.2	0.48	0.69
04-Feb-09	22	234.0	238.5	98.1%	2,244	2,428	92.4%	1.1	1.2	0.48	0.69
05-Feb-09	2	234.1	238.5	98.2%	2,283	2,428	94.0%	1.1	1.2	0.48	0.69
05-Feb-09	3	234.1	238.5	98.2%	2,219	2,428	91.4%	1.1	1.2	0.49	0.69
05-Feb-09	4	234.1	238.5	98.2%	2,260	2,428	93.1%	1.1	1.2	0.48	0.69
05-Feb-09	6	234.1	238.5	98.2%	2,218	2,428	91.4%	1.1	1.2	0.48	0.69
05-Feb-09	7	234.1	238.5	98.2%	2,272	2,428	93.6%	1.1	1.2	0.49	0.69
05-Feb-09	8	234.1	238.5	98.2%	2,226	2,428	91.7%	1.1	1.2	0.49	0.69
05-Feb-09	20	231.3	238.5	97.0%	2,287	2,428	94.2%	1.1	1.2	0.48	0.69
05-Feb-09	21	234.0	238.5	98.1%	2,302	2,428	94.8%	1.1	1.2	0.49	0.69
05-Feb-09	22	234.0	238.5	98.1%	2,296	2,428	94.6%	1.1	1.2	0.50	0.69
05-Feb-09	23	234.0	238.5	98.1%	2,298	2,428	94.6%	1.1	1.2	0.51	0.69
06-Feb-09	0	234.0	238.5	98.1%	2,288	2,428	94.2%	1.1	1.2	0.51	0.69
06-Feb-09	3	232.0	238.5	97.3%	2,253	2,428	92.8%	1.1	1.2	0.50	0.69
06-Feb-09	4	234.0	238.5	98.1%	2,294	2,428	94.5%	1.1	1.2	0.50	0.69
06-Feb-09	6	234.0	238.5	98.1%	2,255	2,428	92.9%	1.1	1.2	0.50	0.68
06-Feb-09	7	234.0	238.5	98.1%	2,275	2,428	93.7%	1.1	1.2	0.49	0.68
06-Feb-09	8	234.0	238.5	98.1%	2,275	2,428	93.7%	1.1	1.2	0.50	0.68
06-Feb-09	20	231.9	238.5	97.2%	2,282	2,428	94.0%	1.1	1.2	0.51	0.69
06-Feb-09	21	230.8	238.5	96.8%	2,280	2,428	93.9%	1.1	1.2	0.51	0.69
07-Feb-09	7	230.4	238.5	96.6%	2,274	2,428	93.7%	1.1	1.2	0.51	0.69
07-Feb-09	10	230.4	238.5	96.6%	2,234	2,428	92.0%	1.1	1.2	0.52	0.69
09-Feb-09	7	234.0	238.5	98.1%	2,288	2,428	94.2%	1.1	1.2	0.49	0.69
13-Feb-09	7	232.7	238.5	97.6%	2,270	2,428	93.5%	1.1	1.2	0.47	0.68
13-Feb-09	8	231.2	238.5	96.9%	2,212	2,428	91.1%	1.1	1.2	0.48	0.69
17-Feb-09	8	230.5	238.5	96.6%	2,265	2,428	93.3%	1.1	1.2	0.50	0.69
17-Feb-09	9	230.5	238.5	96.6%	2,273	2,428	93.6%	1.1	1.2	0.51	0.69
17-Feb-09	10	230.5	238.5	96.6%	2,248	2,428	92.6%	1.1	1.2	0.51	0.69
17-Feb-09	11	230.5	238.5	96.6%	2,255	2,428	92.9%	1.1	1.2	0.51	0.69
17-Feb-09	12	230.5	238.5	96.6%	2,230	2,428	91.8%	1.1	1.2	0.49	0.69
19-Feb-09	10	233.2	238.5	97.8%	2,258	2,428	93.0%	1.1	1.2	0.49	0.68
19-Feb-09	11	234.0	238.5	98.1%	2,235	2,428	92.1%	1.1	1.2	0.50	0.68

ATTACHMENT SH

UNIT 2 JUNE 2008
STACK TEST RESULTS

SOURCE TEST REPORT
FOR
PARTICULATE, SULFUR DIOXIDE,
OXIDES OF NITROGEN AND VISIBLE EMISSIONS

UNIT 2
DEERHAVEN GENERATING STATION
GAINESVILLE REGIONAL UTILITIES
GAINESVILLE, FLORIDA

TITLE V PERMIT 0010006-003-AV
ID NUMBER 0010006 EU005

JUNE 23, 2008

PREPARED FOR:

GAINESVILLE REGIONAL UTILITIES
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128-08-02

2.0 SUMMARY AND DISCUSSION OF RESULTS

Unit 2 was found to be operating within the emission compliance limits for particulate, NO_x, SO_2, and visible emissions.

Test results and flue gas parameters are summarized in Table 1.

Particulate emissions averaged 0.0233 pounds per million BTU (lbs/MMBTU) of heat input into the boiler, which is well within the limiting standard of 0.1 lbs/MMBTU. Run 2 was conducted while the unit was operating in the soot blowing mode and Runs 1 and 3 were conducted in the normal operating mode.

NO_x emissions averaged 0.522 lbs/MMBTU compared to the allowable standard of 0.7 lbs/MMBTU.

SO_2 emissions averaged 0.971 lbs/MMBTU, which is also in compliance with the 1.2 lbs/MMBTU SO_2 standard.

The fuel analysis showed a sulfur content of 0.67 % by weight on a dry basis.

Visible emissions, observed concurrently with Runs 2 (SOOT) and 3 (NORMAL), averaged 0.0% opacity for the highest six minute period of each test. Allowable visible emissions are 20% opacity (see Appendix E for Visible emission data sheets and observer's certifications).

Please note that plant data was recorded at Eastern Standard Time while test monitor data are presented at Eastern Daylight Time.

Complete emission data with sample calculations, field data sheets, and laboratory analysis are presented in Appendices A, B, and C, respectively. Data logger copies for NO_x, SO_2 and CO_2, are located in Appendix D.

Table 1. Emissions Summary
Deerhaven Unit 2 (EU 005)
Gainesville Regional Utilities - Deerhaven Generating Station
Gainesville, Florida
June 23, 2008

Run Number	Time EST	Flow Rate dscfm	Temp. F	H2O %	CO2 % dry	Particulate lbs/MMBTU	NOx Emissions ppm dry	NOx Emissions lbs/MMBTU	SO2 Emissions ppm dry	SO2 Emissions lbs/MMBTU
1	0700-0810	472745	355.4	9.7	14.85	0.0202	352.7	0.521	478.6	0.983
2*	0930-1041	471130	356.8	9.5	15.00	0.0315	355.6	0.522	477.3	0.976
3	1113-1220	471911	355.2	9.4	15.05	0.0183	359.4	0.524	470.3	0.954
Average	—	471929	355.8	9.5	14.97	0.0233	355.9	0.522	475.4	0.971

**** Soot Blowing Run***

Bituminous Coal Fd-Factor = 9780 MMBTU/dscf (O2 based) & 1800 MMBTU/dscf (CO2 based)
MW NOx = 46 lb/lb-mole MW SO2 = 64 lb/lb-mole