

**SANTA ROSA ENERGY CENTER
TITLE V AIR OPERATION PERMIT
RENEWAL APPLICATION**

ORIGINAL

RECEIVED

MAY 18 2012

DIVISION OF AIR
RESOURCE MANAGEMENT

Prepared for:



NYSE CPN

Houston, Texas

Prepared by:



*Environmental Consulting & Technology, Inc.
3701 Northwest 98th Street
Gainesville, Florida 32606*

ECT No. 120348-0100

May 2012



Environmental Consulting & Technology, Inc.

May 17, 2012
ECT No. 120348-0100

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MAY 18 2012

DIVISION OF AIR
RESOURCE MANAGEMENT

Mr. Jeff Koerner
Administrator, Office of Permitting and Compliance
Florida Department of Environmental Protection
Division of Air Resource Management
111 South Magnolia Drive, Suite 4
Tallahassee, Florida 32301

Re: Santa Rosa Energy Center, LLC
Santa Rosa Energy Center (SREC) Title V Air Operation Permit Renewal Application

Dear Mr. Koerner:

Project No.: 1130168-011-AV

Santa Rosa Energy Center, LLC, operates a combined-cycle power plant located at 5001 Sterling Way in Pace, Santa Rosa County, Florida. The SREC consists of one nominal 167-megawatt (MW) General Electric 7FA combustion-turbine generator (CTG), an unfired heat recovery steam generator, and a nominal 74.5-MW steam turbine generator. Ancillary support equipment includes a mechanical draft cooling tower and a small preheater to raise the temperature of natural gas above its dew point prior to combustion in the CTG. The CTG and natural gas preheater are both fired exclusively with pipeline natural gas.

Operation of the SREC is currently authorized by Florida Department of Environmental Protection (FDEP) Title V Air Operation Permit No. 1130168-010-AV. This Title V permit was issued with a second revision effective date of November 2, 2010, and an expiration date of December 31, 2012.

On behalf of Santa Rosa Energy Center, LLC, four copies of a Title V air operation permit application for the SREC are enclosed for FDEP review. Pursuant to the requirements of Section 62-213.400, Florida Administrative Code (F.A.C.), the application package contains FDEP's Application for Air Permit - Long Form and all required supplemental facility and emission unit information.

Ms. Heidi Whidden will contact the assigned FDEP permitting engineer to set up a meeting to discuss the requested modifications. If there are any questions regarding this application, she may be contacted at (713) 570-4829 or via e-mail at Heidi.Whidden@calpine.com.

Sincerely,

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

Thomas W. Davis, P.E.
Principal Engineer

TWD/dlm

Enclosures

3701 Northwest
98th Street
Gainesville, FL
32606

(352)
332-0444

FAX (352)
332-6722

Y:\GDP-12\CALPINE\TWD0517.DOCX.1

INTRODUCTION

Calpine Corporation (Calpine) operates an electrical combined-cycle facility located at 5001 Sterling Way in Pace, Santa Rosa County, Florida. The Santa Rosa Energy Center (SREC) consists of one nominal 167-megawatt (MW) General Electric 7FA combustion turbine generator (CTG), an unfired heat recovery steam generator (HRSG), and a nominal 74.5-MW steam turbine generator (STG). Ancillary support equipment includes a mechanical draft cooling tower and a small preheater to raise the temperature of natural gas above its dew point prior to combustion in the CTG. The CTG and natural gas preheater are both fired exclusively with pipeline natural gas.

Steam produced by the triple-pressure HRSG is sent to the STG for additional power generation or to the adjacent Sterling Fibers acrylic fiber manufacturing facility (or another host) for use as process steam. During operation of the Sterling Fibers facility, most of the SREC HRSG immediate-pressure steam will be routed to the Sterling Fibers steam header for use as process steam.

The SREC CTG is subject to New Source Performance Standards (NSPS) Subpart GG, Standards of Performance for Stationary Gas Turbines, which applies to gas turbines constructed after October 3, 1977. SREC emissions units were also subject to Prevention of Significant Deterioration (PSD) review, including best available control technology (BACT). The CTG is an affected emissions unit under both the Acid Rain Program (ARP) and the Clean Air Interstate Rule (CAIR).

Operation of the SREC is currently authorized by Florida Department of Environmental Protection (FDEP) Title V Air Operation Permit No. 1130168-010-AV. This Title V permit was issued with a second revision effective date of November 2, 2010, and an expiration date of December 31, 2012.

FDEP Title V regulations are codified in Chapter 62-213, Florida Administrative Code (F.A.C.), Operation Permits for Major Sources of Air Pollution. With respect to Title V air operation permit renewal deadlines, Rule 62-213.420(1)(a)2., F.A.C. requires the

permittee apply for a permit renewal at least 225 days prior to permit expiration for permits that expire on or after June 1, 2009. For the SREC, this regulatory deadline results in the submittal of a Title V permit renewal application no later than May 20, 2012.

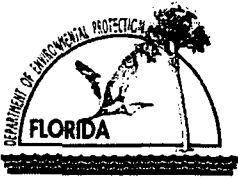
This application package, consisting of the FDEP's Application for Air Permit – Long Form, effective March 11, 2010, and all required supplemental facility and emissions unit information, constitutes Calpine's Title V permit renewal application for the Santa Rosa Energy Center and is submitted to satisfy the requirements of Section 62-213.400, F.A.C.

The following attachments are included as referenced in the permit application:

- Attachment A—Facility Location Map.
- Attachment B—Facility Plot Plan.
- Attachment C—Process Flow Diagram.
- Attachment D—Precautions to Prevent Emissions of Unconfined Particulate Matter.
- Attachment E—List of Insignificant Activities.
- Attachment F—List of Unregulated Emissions Units.
- Attachment G—Identification of Applicable Requirements.
- Attachment H—Compliance Report.
- Attachment I—Requested Changes to Current Title V Air Operation Permit.
- Attachment J—Acid Rain Part.
- Attachment K—Clean Air Interstate Rule (CAIR) Part.
- Attachment L—Fuel Specifications.
- Attachment M—Procedures for Startup and Shutdown.

**FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION**

APPLICATION FOR AIR PERMIT – LONG FORM



Department of Environmental Protection

Division of Air Resource Management

APPLICATION FOR AIR PERMIT - LONG FORM

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MAY 18 2012

I. APPLICATION INFORMATION

DIVISION OF AIR RESOURCE MANAGEMENT

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: Santa Rosa Energy Center, LLC	
2. Site Name: Santa Rosa Energy Center	
3. Facility Identification Number: 1130168	
4. Facility Location... Street Address or Other Locator: 5001 Sterling Way City: Pace County: Santa Rosa Zip Code: 32571-2758	
5. Relocatable Facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Existing Title V Permitted Facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Application Contact

1. Application Contact Name: Heidi M. Whidden, Director – Environmental Services Southeast Region	
2. Application Contact Mailing Address... Organization/Firm: Calpine Corporation (c/o EHS Department) Street Address: 717 Texas Avenue, Suite 1000 City: Houston State: Texas Zip Code: 77002-2743	
3. Application Contact Telephone Numbers... Telephone: (713) 570-4829 ext. Fax: (please email)	
4. Application Contact E-mail Address: Heidi.Whidden@calpine.com	

Application Processing Information (DEP Use)

1. Date of Receipt of Application: 5-18-12	3. PSD Number (if applicable):
2. Project Number(s): 1130168-011-AV	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, 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

Operation of the Santa Rosa Energy Center (SREC) is currently authorized by Florida Department of Environmental Protection (FDEP) Title V Air Operation Permit No. 1130168-010-AV issued with an effective date of November 2, 2010 (2nd Revision) , and an expiration date of December 31, 2012.

This application form and supplemental facility and emission unit information constitutes Calpine's Title V air operation permit renewal application for the SREC.

APPLICATION INFORMATION

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Processing Fee
001	Nominal 167 MW Combined-Cycle Combustion Turbine Generator; CT-1	N/A	N/A
003	Mechanical Draft Cooling Tower (Unregulated Emission Unit)	N/A	N/A

Application Processing Fee

Check one: Attached - Amount: \$ _____ Not Applicable

Note: The SREC has been issued Final Title V Operation Permit Number 1130168-010-AV. An application processing fee is not required pursuant to Rule 62-213.205(4), F.A.C.

APPLICATION INFORMATION

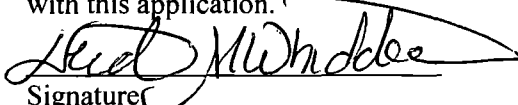
Owner/Authorized Representative Statement **NOT APPLICABLE**
Complete if applying for an air construction permit or an initial FESOP.

1. Owner/Authorized Representative Name :
2. Owner/Authorized Representative Mailing Address... Organization/Firm: Street Address: City: State: Zip Code:
3. Owner/Authorized Representative Telephone Numbers... Telephone: () - ext. Fax: () -
4. Owner/Authorized Representative E-mail Address:
5. Owner/Authorized Representative Statement: <i>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.</i> _____ Signature _____ Date

APPLICATION INFORMATION

Application Responsible Official Certification

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: Heidi M. Whidden, Director –Environmental Services Southeast Region
2. Application Responsible Official Qualification (Check one or more of the following options, as applicable): <input checked="" type="checkbox"/> 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. <input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively. <input type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. <input checked="" type="checkbox"/> The designated representative at an Acid Rain source, CAIR source, or Hg Budget source.
3. Application Responsible Official Mailing Address... Organization/Firm: Calpine Corporation Street Address: 717 Texas Ave. Suite 1000 City: Houston State: TX Zip Code: 77002-2743
4. Application Responsible Official Telephone Numbers... Telephone: (713) 570-4829 ext. Fax: Please e-mail
5. Application Responsible Official E-mail Address: Heidi.Whidden@calpine.com
6. Application Responsible Official Certification: <p>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.</p> <p> Signature</p> <p><u>5/15/12</u> Date</p>



MEMORANDUM

To: Delegation of Authority
From: John Adams, Senior Vice President – Power Operations
Subject: Delegation of Signature Authority – Plant Managers – Regulatory Filings
Date: April 1, 2012

Commencing upon the effective date set forth below and continuing until the earliest of (i) the expiration date set forth below, (ii) the date on which the individual named below is no longer an employee, consultant or officer of Calpine Corporation or any of its affiliates, or (iii) the undersigned is no longer an employee, consultant or officer of Calpine Corporation or any of its affiliates, I hereby authorize, empower and direct such individual to perform any and all acts, including authorization of expenditures and execution of agreements, documents, instruments and certificates, for and on behalf of the Calpine entity identified below, that such individual deems necessary or advisable to carry out the business of such Calpine entity, consistent with the policies and procedures of Calpine Corporation, including Calpine's Signature Authority Limits policy; provided, however, that obligations arising from such acts do not exceed the maximum dollar amount set forth below.

Individual: Heidi Whidden

Title: Director – EHS Southeast Region

Calpine entity for which authority is granted: Calpine Corporation/COSCA ^{9-M}

Maximum dollar amount: N/A – For environmental regulatory filings and permits
(See attached Schedule 1)

Effective date: April 1, 2012

Expiration date: December 31, 2012

When executing agreements for and on behalf of the Calpine entity identified above, such individual shall use the following signature block:

Calpine Corporation and Calpine Operating Services Company, Inc. ^{9-M}

By:

Name: Heidi Whidden

EHS Director Southeast Region and designated Representative/Responsible

Title: Official

Any and all actions taken or caused to be taken by such individual in the conduct of the business of the Calpine entity identified above in connection with any of the matters contemplated by this delegation of authority, prior to the date hereof, are hereby acknowledged to be duly authorized acts and deeds performed on behalf of such Calpine entity and are hereby approved, adopted, accepted and ratified in all respects as the acts and deeds of such Calpine entity and that said actions shall have the same force and effect as if they were taken with the prior approval of such Calpine entity. This memorandum supersedes any and all previous delegations of such authority on behalf of such Calpine entity to the individual named above. Such individual may not further delegate the authority granted herein.

Sincerely,

John Adams, SVP

ok
NDX
4/10/12



SCHEDULE 1

1. All environmental permits and regulatory filings for the following plants:
 - a. Auburndale Peaker Energy Center
 - b. Broad River Energy Center
 - c. Carville Energy Center
 - d. Columbia Energy Center
 - e. Decatur Energy Center
 - f. Hog Bayou Energy Center
 - g. Morgan Energy Center
 - h. Oneta Energy Center
 - i. Pine Bluff Energy Center
 - j. Santa Rosa Energy Center
 - k. Washington Parish Energy Center

**Environmental Health & Safety Responsibility and Authority
Guidelines for Limited Partnerships, Limited Liability Companies
And Subsidiary Corporations**

A number of routine Environmental, Health & Safety (EHS) reports and filings that are submitted to regulatory agencies on behalf of the project entities within Calpine Power Company's various regions require a certification in which the signatory is required to attest to his authority to act on behalf of the owners and/or operator of the



facility. However, under current project entity formation documents, the authority and responsibility to act on behalf of a Calpine entity, as a representative with regard to EHS reporting and compliance matters is not explicit.

To address the lack of explicit authority, the positions of "Plant Manager/General Manager" and "Regional EHS Director" should be authorized via a Delegation of Authority Memorandum by each project entity to act as follows:

1. Plant Managers/General Managers

For each project entity, the person holding the position of Plant Manager/General Manager is authorized and required to act on behalf of the project entity for all routine and/or re-occurring EHS compliance and reporting required by permit, regulation, or contract including but not limited to: periodic storm/waste water discharge reports, quarterly emissions reports, and annual reports summarizing annual compliance of the project with existing permit contract and regulatory limitations.

This responsibility shall include the Plant Manager/General Manager serving as the Designated Representative/Responsible Official for all routine and/or re-occurring EHS compliance and reporting under all titles of the Clean Air Act, the Clean Water Act and in similar capacity for other federal, state or local EHS regulatory programs.

2. Regional EHS Director

The person holding the position of Regional EHS Director is authorized to act as an alternate to the Plant Manager/General Manager on behalf of the project for all matters set forth under Item 1, above.

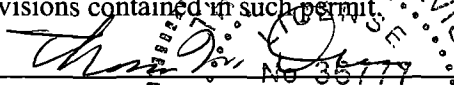
In addition to the above, the Regional EHS Director is authorized to serve as the primary point of contact with federal, state and local EHS regulatory agencies, concerning queries, modifications to permits and plans, enforcement actions and regulatory/policy clarification and development.

The Regional EHS Director also is authorized to serve as the Responsible Official regarding all applicable permit documents and is authorized to make technical and administrative filings related to permit applications, modifications, renewals, as well as represent the company with respect to notices of violations, safety citations, and management of environmental commodities.

The Regional EHS Director is additionally authorized to make representations and administrative filings as required under the Department of Homeland Security's Chemical Facility Anti-Terrorism Standards rules.

APPLICATION INFORMATION

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 NW 98th Street City: Gainesville State: Florida Zip Code: 32606-5004
3. Professional Engineer Telephone Numbers... Telephone: (352) 248 - 3351 ext. Fax: (352) 332 - 6722
4. Professional Engineer E-mail 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 <input checked="" type="checkbox"/> , 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 <input type="checkbox"/> , 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 <input type="checkbox"/> , 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. <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  Signature (seal) </div> <div style="text-align: center;"> 5/17/12 Date </div> </div>

* Attach any exception to certification statement



MEMORANDUM

To: Delegation of Authority
From: John Adams, Senior Vice President – Power Operations
Subject: Delegation of Signature Authority – Plant Managers – Regulatory Filings
Date: April 1, 2012

Commencing upon the effective date set forth below and continuing until the earliest of (i) the expiration date set forth below, (ii) the date on which the individual named below is no longer an employee, consultant or officer of Calpine Corporation or any of its affiliates, or (iii) the undersigned is no longer an employee, consultant or officer of Calpine Corporation or any of its affiliates, I hereby authorize, empower and direct such individual to perform any and all acts, including authorization of expenditures and execution of agreements, documents, instruments and certificates, for and on behalf of the Calpine entity identified below, that such individual deems necessary or advisable to carry out the business of such Calpine entity, consistent with the policies and procedures of Calpine Corporation, including Calpine's Signature Authority Limits policy; provided, however, that obligations arising from such acts do not exceed the maximum dollar amount set forth below.

Individual: Dana McNally

Title: General Manager

Calpine entity for which authority is granted: Calpine Corporation/~~CS&G~~^{CS&G}

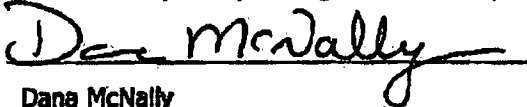
Maximum dollar amount: N/A – For environmental regulatory filings and permits
(See attached Schedule 1)

Effective date: April 1, 2012

Expiration date: December 31, 2012

When executing agreements for and on behalf of the Calpine entity identified above, such individual shall use the following signature block:


Calpine Corporation and ~~Calpine Operating Services Company, Inc.~~^{CS&G}

By: 

Name: Dana McNally

Title: General Manager and designated Representative/Responsible Official

Any and all actions taken or caused to be taken by such individual in the conduct of the business of the Calpine entity identified above in connection with any of the matters contemplated by this delegation of authority, prior to the date hereof, are hereby acknowledged to be duly authorized acts and deeds performed on behalf of such Calpine entity and are hereby approved, adopted, accepted and ratified in all respects as the acts and deeds of such Calpine entity and that said actions shall have the same force and effect as if they were taken with the prior approval of such Calpine entity. This memorandum supersedes any and all previous delegations of such authority on behalf of such Calpine entity to the individual named above. Such individual may not further delegate the authority granted herein.

Sincerely,

John Adams, SVP

ok
NH
4/10/12



SCHEDULE 1

1. All environmental permits and regulatory filings for the following plants:

- a. Hog Bayou Energy Center
- b. Santa Rosa Energy Center

Environmental Health & Safety Responsibility and Authority Guidelines for Limited Partnerships, Limited Liability Companies And Subsidiary Corporations

A number of routine Environmental, Health & Safety (EHS) reports and filings that are submitted to regulatory agencies on behalf of the project entities within Calpine Power Company's various regions require a certification in which the signatory is required to attest to his authority to act on behalf of the owners and/or operator of the facility. However, under current project entity formation documents, the authority and responsibility to act on behalf of a Calpine entity, as a representative with regard to EHS reporting and compliance matters is not explicit.

To address the lack of explicit authority, the positions of "Plant Manager/General Manager" and "Regional EHS Director" should be authorized via a Delegation of Authority Memorandum by each project entity to act as follows:

1. Plant Managers/General Managers

For each project entity, the person holding the position of Plant Manager/General Manager is authorized and required to act on behalf of the project entity for all routine and/or re-occurring EHS compliance and reporting required by permit, regulation, or contract including but not limited to: periodic storm/waste water discharge reports, quarterly emissions reports, and annual reports summarizing annual compliance of the project with existing permit contract and regulatory limitations.

This responsibility shall include the Plant Manager/General Manager serving as the Designated Representative/Responsible Official for all routine and/or re-occurring EHS compliance and reporting under all titles of the Clean Air Act, the Clean Water Act and in similar capacity for other federal, state or local EHS regulatory programs.



2. Regional EHS Director

The person holding the position of Regional EHS Director is authorized to act as an alternate to the Plant Manager/General Manager on behalf of the project for all matters set forth under Item 1, above.

In addition to the above, the Regional EHS Director is authorized to serve as the primary point of contact with federal, state and local EHS regulatory agencies, concerning queries, modifications to permits and plans, enforcement actions and regulatory/policy clarification and development.

The Regional EHS Director also is authorized to serve as the Responsible Official regarding all applicable permit documents and is authorized to make technical and administrative filings related to permit applications, modifications, renewals, as well as represent the company with respect to notices of violations, safety citations, and management of environmental commodities.

The Regional EHS Director is additionally authorized to make representations and administrative filings as required under the Department of Homeland Security's Chemical Facility Anti-Terrorism Standards rules.

FACILITY INFORMATION

Facility Regulatory Classifications

Check all that would apply *following* completion of all projects and implementation of all other changes proposed in this application for air permit. Refer to instructions to distinguish between a “major source” and a “synthetic minor source.”

1. <input type="checkbox"/> Small Business Stationary Source	<input type="checkbox"/> Unknown
2. <input type="checkbox"/> Synthetic Non-Title V Source	
3. <input checked="" type="checkbox"/> Title V Source	
4. <input checked="" type="checkbox"/> Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)	
5. <input type="checkbox"/> Synthetic Minor Source of Air Pollutants, Other than HAPs	
6. <input type="checkbox"/> Major Source of Hazardous Air Pollutants (HAPs)	
7. <input type="checkbox"/> Synthetic Minor Source of HAPs	
8. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NSPS (40 CFR Part 60)	
9. <input type="checkbox"/> One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)	
10. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63)	
11. <input type="checkbox"/> Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))	
12. Facility Regulatory Classifications Comment:	
<p>The combined cycle combustion turbine (EU-001) is each subject to New Source Performance Standard (NSPS) Subpart GG, <i>Standards of Performance for Stationary Gas Turbines.</i></p> <p>The emergency fire water pump diesel engine is subject to NSPS Subpart IIII, <i>Standards of Performance for Stationary Compression Ignition Internal Combustion Engines and National Emission Standards for Hazardous Air Pollutants (NESHAPS) Subpart ZZZZ, <i>National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.</i></i></p>	

FACILITY INFORMATION

List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
CO	A	N
NO _x	A	N
SO ₂	B	N
VOC	B	N

FACILITY INFORMATION

C. FACILITY ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Facility Plot Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: Attachment B <input type="checkbox"/> Previously Submitted, Date: _____
2. Process Flow Diagram(s): (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: Attachment C <input type="checkbox"/> Previously Submitted, Date: _____
3. Precautions to Prevent Emissions of Unconfined Particulate Matter: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: Attachment D <input type="checkbox"/> Previously Submitted, Date: _____

Additional Requirements for Air Construction Permit Applications **NOT APPLICABLE**

1. Area Map Showing Facility Location: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable (existing permitted facility)
2. Description of Proposed Construction, Modification, or Plantwide Applicability Limit (PAL): <input type="checkbox"/> Attached, Document ID: _____
3. Rule Applicability Analysis: <input type="checkbox"/> Attached, Document ID: _____
4. List of Exempt Emissions Units: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable (no exempt units at facility)
5. Fugitive Emissions Identification: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
6. Air Quality Analysis (Rule 62-212.400(7), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
7. Source Impact Analysis (Rule 62-212.400(5), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
8. Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
9. Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
10. Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable

FACILITY INFORMATION

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for FESOP Applications **NOT APPLICABLE**

1. List of Exempt Emissions Units:
 Attached, Document ID: _____ Not Applicable (no exempt units at facility)

Additional Requirements for Title V Air Operation Permit Applications

1. List of Insignificant Activities: (Required for initial/renewal applications only)
 Attached, Document ID: **Attachment E** Not Applicable

2. Identification of Applicable Requirements: (Required for initial/renewal applications, and for revision applications if this information would be changed as a result of the revision being sought)
 Attached, Document ID: **Attachment G**
 Not Applicable (revision application with no change in applicable requirements)

3. Compliance Report and Plan: (Required for all initial/revision/renewal applications)
 Attached, Document ID: **Attachment H**
Note: A compliance plan must be submitted for each emissions unit that is not in compliance with all applicable requirements at the time of application and/or at any time during application processing. The department must be notified of any changes in compliance status during application processing.

4. List of Equipment/Activities Regulated under Title VI: (If applicable, required for initial/renewal applications only)
 Attached, Document ID:
 Equipment/Activities Onsite but Not Required to be Individually Listed
 Not Applicable

5. Verification of Risk Management Plan Submission to EPA: (If applicable, required for initial/renewal applications only)
 Attached, Document ID: _____ Not Applicable

6. Requested Changes to Current Title V Air Operation Permit:
 Attached, Document ID: **Attachment I** Not Applicable

FACILITY INFORMATION

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Facilities Subject to Acid Rain, CAIR, or Hg Budget Program

1. Acid Rain Program Forms: Acid Rain Part Application (DEP Form No. 62-210.900(1)(a)): <input checked="" type="checkbox"/> Attached, Document ID: Attach. J <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Not Applicable (not an Acid Rain source) Phase II NO _x Averaging Plan (DEP Form No. 62-210.900(1)(a)1.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable New Unit Exemption (DEP Form No. 62-210.900(1)(a)2.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
2. CAIR Part (DEP Form No. 62-210.900(1)(b)): <input checked="" type="checkbox"/> Attached, Document ID: Attach. K <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Not Applicable (not a CAIR source)
3. Hg Budget Part (DEP Form No. 62-210.900(1)(c)): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable (not a Hg Budget unit)

Additional Requirements Comment

<p>Facility Location Map is provided as Attachment A.</p> <p>List of Unregulated Emission Units is provided as Attachment F.</p>
--

EMISSIONS UNIT INFORMATION

Section [1] of [2]

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in this Section: (Check one)

This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in this Section:
Combined-Cycle Combustion Turbine (CT-1)

3. Emissions Unit Identification Number: **001**

4. Emissions Unit Status Code: A	5. Commence Construction Date: N/A	6. Initial Startup Date: N/A	7. Emissions Unit Major Group SIC Code: 49
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8. Federal Program Applicability: (Check all that apply)

Acid Rain Unit

CAIR Unit

Hg Budget Unit

9. Package Unit:
 Manufacturer: **General Electric** Model Number: **MS7001FA**

10. Generator Nameplate Rating: **167 MW (CT – nominal), 74.5 MW (steam turbine)**

11. Emissions Unit Comment:

Combined-cycle CT-1 consists of one nominal 167-megawatt (MW) General Electric MS7001FA combustion turbine generator (CTG), an unfired heat recovery steam generator (HRSG), and a 74.5-MW steam turbine generator (STG). Steam produced by the triple pressure HRSG is sent to the STG for additional power generation. Steam may also be provided to the adjacent Sterling Fibers acrylic fiber manufacturing facility (or another host) for use as process steam.

EMISSIONS UNIT INFORMATION

Section [1] of [2]

Emissions Unit Control Equipment/Method: Control 1 of 1

- | |
|--|
| 1. Control Equipment/Method Description:

Dry Low NO_x (DLN) combustion |
| 2. Control Device or Method Code: 025 |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

EMISSIONS UNIT INFORMATION

Section [1] of [2]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: N/A
2. Maximum Production Rate: N/A
3. Maximum Heat Input Rate: 1,780 million Btu/hr (LHV) @ 100-percent load and compressor inlet combustion air conditions of 59°F temperature, 60-percent relative humidity, and 14.7 psia.
4. Maximum Incineration Rate: pounds/hr tons/day
5. Requested Maximum Operating Schedule: 24 hours/day 52 weeks/year 7 days/week 8,760 hours/year
6. Operating Capacity/Schedule Comment: Maximum hourly heat input rates will vary with ambient conditions and combustion turbine characteristics. LHV = lower heating value

EMISSIONS UNIT INFORMATION

Section [1] of [2]

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: CT-1		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: N/A			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: N/A			
5. Discharge Type Code: V	6. Stack Height: 200 feet	7. Exit Diameter: 19.0 feet	
8. Exit Temperature: 196 - 216 °F	9. Actual Volumetric Flow Rate: 1,073,204 acfm	10. Water Vapor: N/A %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment: Field 9 actual volumetric flow rate based on vendor data for operation during power augmentation mode.			

EMISSIONS UNIT INFORMATION

Section [1] of [2]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Internal Combustion Engines, Electric Generation, Natural Gas, Turbine		
2. Source Classification Code (SCC): 2-01-002-01		3. SCC Units: Million Cubic Feet
4. Maximum Hourly Rate: 1.780	5. Maximum Annual Rate: 15,593	6. Estimated Annual Activity Factor: N/A
7. Maximum % Sulfur: N/A	8. Maximum % Ash: N/A	9. Million Btu per SCC Unit: 1,000 (LHV), nominal
10. Segment Comment:		

Segment Description and Rate: Segment of

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

EMISSIONS UNIT INFORMATION

Section [1] of [2]

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
NO _x	025		EL
VOC			EL
CO			EL
SO ₂			EL
PM			NS
PM ₁₀			NS

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
 ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 9.0 ppmvd @ 15-percent oxygen (24-hour block average)	4. Equivalent Allowable Emissions: 64.1 lb/hour 280.8 tons/year
5. Method of Compliance: NO_x CEMS	
6. Allowable Emissions Comment (Description of Operating Method): Rule 62-212.400(10)(b), F.A.C. – Best Available Control Technology (BACT) Permit No. 1130168-010-AV, Condition A.11.	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 64.1 lb/hr	4. Equivalent Allowable Emissions: 64.1 lb/hour 280.8 tons/year
5. Method of Compliance: EPA Reference Methods 7E and 19 (Initial stack test only)	
6. Allowable Emissions Comment (Description of Operating Method): Rule 62-212.400(10)(b), F.A.C. – Best Available Control Technology (BACT) Permit No. 1130168-010-AV, Condition A.11.	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
 (Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: VOC		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 2.9 lb/hour 12.7 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A to tons/year			
6. Emission Factor: TV Permit Condition A.13. Reference:		7. Emissions Method Code: 0	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions:			
11. Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 1.4 ppm	4. Equivalent Allowable Emissions: 2.9 lb/hour 12.7 tons/year
5. Method of Compliance: EPA Reference Methods 3, 18, 25, or 25A (if required)	
6. Allowable Emissions Comment (Description of Operating Method): Rule 62-212.400(10)(b), F.A.C. – Best Available Control Technology (BACT) Permit No. 1130168-010-AV, Condition A.13. Compliance with the VOC emission limit is assumed provided the allowable CO emission limits are achieved.	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 2.9 lb/hr	4. Equivalent Allowable Emissions: 2.9 lb/hour 12.7 tons/year
5. Method of Compliance: EPA Reference Methods 3, 18, 25, or 25A and 19 (if required)	
6. Allowable Emissions Comment (Description of Operating Method): Rule 62-212.400(10)(b), F.A.C. – Best Available Control Technology (BACT) Permit No. 1130168-010-AV, Condition A.13. Compliance with the VOC emission limit is assumed provided the allowable CO emission limits are achieved.	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
 (Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: CO		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 29 lb/hour 127.0 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A to tons/year			
6. Emission Factor: TV Permit Condition A.12. Reference:		7. Emissions Method Code: 0	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions:			
11. Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
 ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 9 ppmvd	4. Equivalent Allowable Emissions: 29 lb/hour 127.0 tons/year
5. Method of Compliance: EPA Reference Method 10 (annual if CT-1 operates > 400 hours per year)	
6. Allowable Emissions Comment (Description of Operating Method): Rule 62-212.400(10)(b), F.A.C. – Best Available Control Technology (BACT) Permit No. 1130168-010-AV, Condition A.12.	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 29 lb/hr	4. Equivalent Allowable Emissions: 29 lb/hour 127.0 tons/year
5. Method of Compliance: EPA Reference Methods 10 and 19 (annual if CT-1 operates > 400 hours per year)	
6. Allowable Emissions Comment (Description of Operating Method): Rule 62-212.400(10)(b), F.A.C. – Best Available Control Technology (BACT) Permit No. 1130168-010-AV, Condition A.12.	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: SO₂		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 10.2 lb/hour 44.7 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A to tons/year			
6. Emission Factor: Mass Balance Reference:		7. Emissions Method Code: 2	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: $\text{Hourly SO}_2 = (2.0 \text{ grains S}/100 \text{ ft}^3 \text{ NG}) \times (\text{ft}^3 \text{ NG}/1,000 \text{ Btu}) \times (1,780 \times 10^6 \text{ Btu/hr})$ $\times (1 \text{ lb S}/7,000 \text{ grains S}) \times (64 \text{ lb SO}_2/32 \text{ lb S}) = 10.2 \text{ lb/hr}$ $\text{Annual SO}_2 = (10.2 \text{ lb/hr}) \times (8,760 \text{ hr/yr}) \times (1 \text{ ton}/2,000 \text{ lb}) = 44.7 \text{ tpy}$			
11. Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
 ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 2.0 grain S/100 ft³ natural gas	4. Equivalent Allowable Emissions: 10.2 lb/hour 44.7 tons/year
5. Method of Compliance: Use of pipeline natural gas	
6. Allowable Emissions Comment (Description of Operating Method): Rule 62-212.400(10)(b), F.A.C. – Best Available Control Technology (BACT) Permit No. 1130168-010-AV, Condition A.14.	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM (filterable)	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions: 9.1 lb/hour 39.9 tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): N/A to tons/year	
6. Emission Factor: 0.0051 lb/10⁶ Btu Reference: GE Data	7. Emissions Method Code: 5
8.a. Baseline Actual Emissions (if required): Tons/year N/A	8.b. Baseline 24-month Period: N/A From: To:
9.a. Projected Actual Emissions (if required): Tons/year N/A	9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A
10. Calculation of Emissions: Hourly PM = (0.0051 lb/10⁶ Btu) × (1,780 × 10⁶ Btu/hr) = 9.1 lb/hr Annual PM = (9.1 lb/hr) × (8,760 hr/yr) × (1 ton/2,000 lb) = 39.9 tpy	
11. Potential, Fugitive, and Actual Emissions Comment: PM emission rates represent filterable PM only.	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
 ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 10% Opacity	4. Equivalent Allowable Emissions: 9.1 lb/hour 39.9 tons/year
5. Method of Compliance: EPA Reference Method 9 (annual if CT-1 operates > 400 hours per year)	
6. Allowable Emissions Comment (Description of Operating Method): Rule 62-212.400(10)(b), F.A.C. – Best Available Control Technology (BACT) Permit No. 1130168-010-AV, Condition A.15.	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
 (Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM₁₀ (filterable + condensable)		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 18.2 lb/hour 79.8 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A to tons/year			
6. Emission Factor: 0.0102 lb/10⁶ Btu Reference: GE Data		7. Emissions Method Code: 5	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: <p align="center">Filterable and condensable PM₁₀ emission rates are assumed to be equal.</p> <p align="center">Hourly PM₁₀ = (0.0102 lb/10⁶ Btu) × (1,780 × 10⁶ Btu/hr) = 18.2 lb/hr</p> <p align="center">Annual PM₁₀ = (18.2 lb/hr) × (8,760 hr/yr) × (1 ton/2,000 lb) = 79.8 tpy</p>			
11. Potential, Fugitive, and Actual Emissions Comment: PM₁₀ emission rates represent filterable and condensable PM₁₀.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
 ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 10% Opacity	4. Equivalent Allowable Emissions: 18.2 lb/hour 79.8 tons/year
5. Method of Compliance: EPA Reference Method 9 (annual if CT-1 operates > 400 hours per year)	
6. Allowable Emissions Comment (Description of Operating Method): Rule 62-212.400(10)(b), F.A.C. – Best Available Control Technology (BACT) Permit No. 1130168-010-AV, Condition A.15.	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

Section [1] of [2]

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 10 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA Method 9	
5. Visible Emissions Comment: Rule 62-212.400(10)(b), F.A.C. – Best Available Control Technology (BACT) Permit No. 1130168-010-AV, Condition A.15.	

Visible Emissions Limitation: Visible Emissions Limitation of

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [1] of [2]

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 1 of 2

1. Parameter Code: EM	2. Pollutant(s): NO_x
3. CMS Requirement:	<input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Rosemount Analytical Model Number: NGA CLD Serial Number: U1008105	
5. Installation Date: April 2012	6. Performance Specification Test Date: Planned May 2012
7. Continuous Monitor Comment: Required by 40 CFR Part 75 (Acid Rain Program) and 40 CFR Part 96 (CAIR). Permit No. 1130168-010-AV, Condition A.33.	

Continuous Monitoring System: Continuous Monitor 2 of 2

1. Parameter Code: O2	2. Pollutant(s): N/A
3. CMS Requirement:	<input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Rosemount Analytical Model Number: MLT Serial Number: 30061481173	
5. Installation Date: May 2002	6. Performance Specification Test Date: May 2002
7. Continuous Monitor Comment: Required by 40 CFR Part 75 (Acid Rain Program) and 40 CFR Part 96 (CAIR). Permit No. 1130168-010-AV, Condition A.33.	

EMISSIONS UNIT INFORMATION

Section [1] of [2]

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>Attachment C</u> <input type="checkbox"/> Previously Submitted, Date: _____
2. Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>Attachment L</u> <input type="checkbox"/> Not Applicable
4. Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>Attachment M</u> <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records: <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: <u>08/31/11</u> Test Date(s)/Pollutant(s) Tested: <u>07/21/11 / CO and VE</u> <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Not Applicable Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [1] of [2]

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications NOT APPLICABLE

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements: <input checked="" type="checkbox"/> Attached, Document ID: <u>Attachment G</u> <input type="checkbox"/> Not Applicable
2. Compliance Assurance Monitoring: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Alternative Methods of Operation: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements Comment

EMISSIONS UNIT INFORMATION

Section [2] of [2]

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)
- The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
 - The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in this Section: (Check one)
- This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).
 - This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.
 - This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in this Section:
4-Cell Mechanical Draft Cooling Tower

3. Emissions Unit Identification Number: **003**

4. Emissions Unit Status Code: A	5. Commence Construction Date: N/A	6. Initial Startup Date: N/A	7. Emissions Unit Major Group SIC Code: 49
--	---	--	---

8. Federal Program Applicability: (Check all that apply)
- Acid Rain Unit
 - CAIR Unit
 - Hg Budget Unit

9. Package Unit: **N/A**
Manufacturer: _____ Model Number: _____

10. Generator Nameplate Rating: **N/A** MW

11. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION

Section [2] of [2]

Emissions Unit Control Equipment/Method: Control 1 of 1

1. Control Equipment/Method Description:

Mist (Drift) Eliminators – Low Velocity (V<250 ft/min)

2. Control Device or Method Code: **015**

Emissions Unit Control Equipment/Method: Control of

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

EMISSIONS UNIT INFORMATION

Section [2] of [2]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

NOT APPLICABLE

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate:	
2. Maximum Production Rate:	
3. Maximum Heat Input Rate: million Btu/hr	
4. Maximum Incineration Rate: pounds/hr tons/day	
5. Requested Maximum Operating Schedule: hours/day weeks/year	days/week hours/year
6. Operating Capacity/Schedule Comment:	

EMISSIONS UNIT INFORMATION

Section [2] of [2]

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

NOT APPLICABLE

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram:		2. Emission Point Type Code:	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code:	6. Stack Height: feet	7. Exit Diameter: feet	
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) : Longitude (DD/MM/SS) :	
15. Emission Point Comment:			

EMISSIONS UNIT INFORMATION

Section [2] of [2]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Cooling Tower, Process Cooling, Mechanical Draft. Cooling tower water recirculation rate.		
2. Source Classification Code (SCC): 3-85-001-01		3. SCC Units: Million gallons
4. Maximum Hourly Rate: 3.6	5. Maximum Annual Rate: 31,536	6. Estimated Annual Activity Factor: N/A
7. Maximum % Sulfur: N/A	8. Maximum % Ash: N/A	9. Million Btu per SCC Unit: N/A
10. Segment Comment:		

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS
 (Optional for unregulated emissions units.)**

NOT APPLICABLE

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted:		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: Reference:		7. Emissions Method Code:	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions:			
11. Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
 ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation. **NOT APPLICABLE**

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation. **NOT APPLICABLE**

Visible Emissions Limitation: Visible Emissions Limitation of

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

Visible Emissions Limitation: Visible Emissions Limitation of

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [2] of [2]

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___ **NOT APPLICABLE**

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [2] of [2]

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: Attachment B <input type="checkbox"/> Previously Submitted, Date: _____
2. Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable
5. Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records: <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Not Applicable Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [2] of [2]

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications NOT APPLICABLE

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements: <input checked="" type="checkbox"/> Attached, Document ID: <u>Attachment G</u> <input type="checkbox"/> Not Applicable
2. Compliance Assurance Monitoring: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Alternative Methods of Operation: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements Comment

ATTACHMENT A
FACILITY LOCATION MAP



ATTACHMENT A.

FACILITY LOCATION MAP

Sources: USGS Quads: Milton South and Pace, FL., 1987; ECT, 2012.



ATTACHMENT B
FACILITY PLOT PLAN

STEAM TO STERLING FIBERS FACILITY



B-1

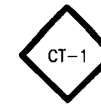
ATTACHMENT B.
FACILITY PLOT PLAN

Source: ECT, 2012.

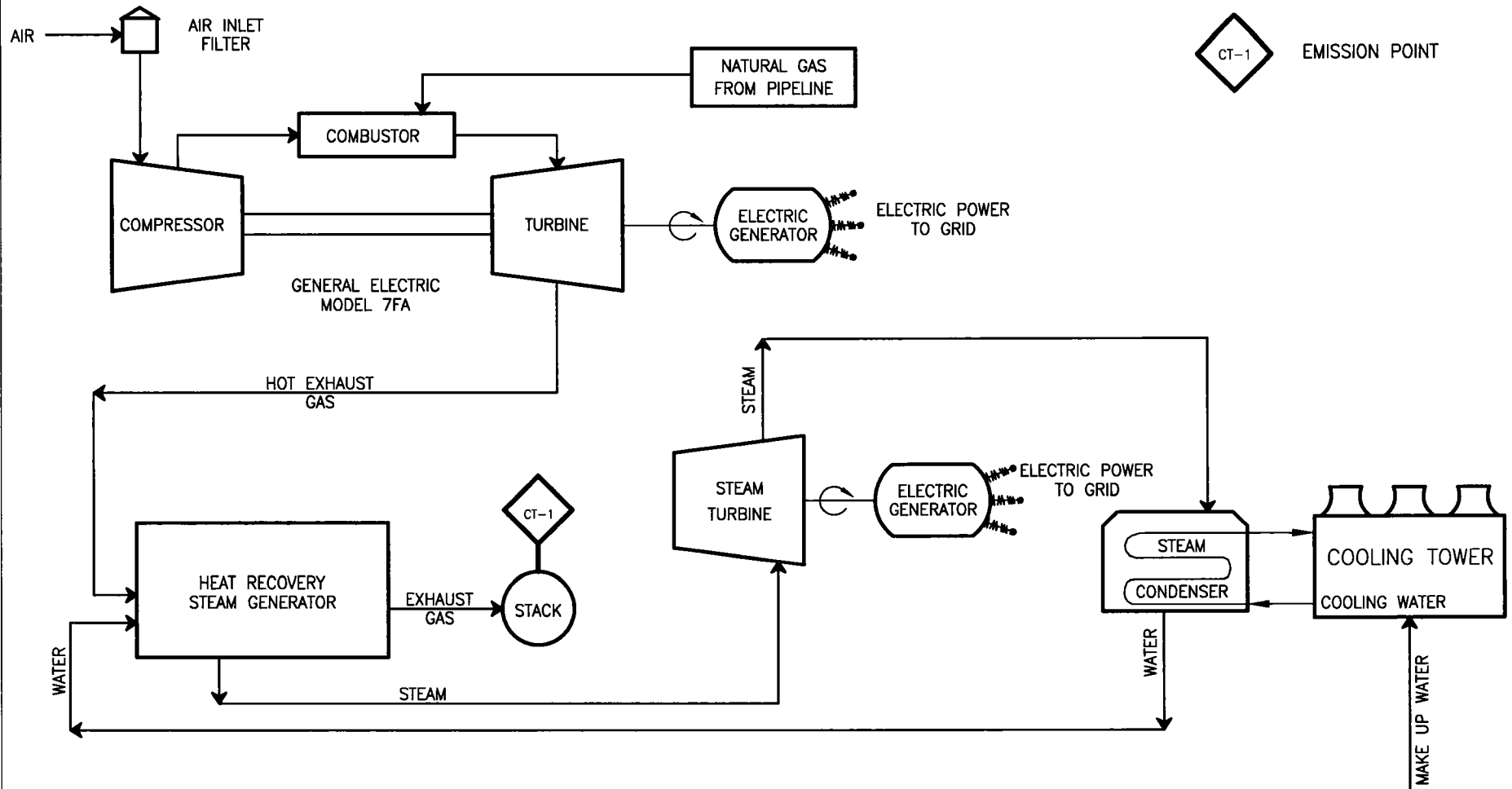


ATTACHMENT C
PROCESS FLOW DIAGRAM

LEGEND



EMISSION POINT



C-1

ATTACHMENT C.

PROCESS FLOW DIAGRAM

Source: ECT, 2012.



ATTACHMENT D

**PRECAUTIONS TO PREVENT EMISSIONS
OF UNCONFINED PARTICULATE MATTER**

ATTACHMENT D

SANTA ROSA ENERGY CENTER PRECAUTIONS TO PREVENT EMISSIONS OF UNCONFINED PARTICULATE MATTER

Unconfined particulate matter (PM) emissions that may result from operations at the SREC include:

- Vehicular traffic on paved and unpaved roads.
- Wind-blown dust from yard areas.
- Periodic abrasive blasting.

The following techniques may be used to control unconfined PM emissions on an as-needed basis:

- Paving and maintenance of roads, parking areas, and yards.
- Chemical (dust suppressants) or water application to:
 - Unpaved roads.
 - Unpaved yard areas.
- Removal of PM from roads and other paved areas to prevent reentrainment and from buildings or work areas to prevent airborne particulate.
- Landscaping or planting of vegetation.
- Confining abrasive blasting where possible.
- Other techniques, as necessary

ATTACHMENT E
LIST OF INSIGNIFICANT ACTIVITIES

ATTACHMENT E

**SANTA ROSA ENERGY CENTER
LIST OF INSIGNIFICANT ACTIVITIES**

1. Natural gas preheater: 2.6-million-British-thermal-units-per-hour (MMBtu/hr) heat input
2. Lubricating and hydraulic oil container vents
3. Vacuum pumps for sample collection
4. Maintenance welding
5. Storage of water treatment chemicals
6. Water treatment equipment: reverse osmosis, demineralization, pH control, addition of anticorrosion and antiscaling agents, and oil/water separators
7. Maintenance of grounds and lawns
8. Emergency fire water pump 146-horsepower diesel engine

ATTACHMENT F

LIST OF UNREGULATED EMISSIONS UNITS

ATTACHMENT F

**SANTA ROSA ENERGY CENTER
LIST OF UNREGULATED EMISSION UNITS**

1. Mechanical draft cooling tower

ATTACHMENT G

IDENTIFICATION OF APPLICABLE REQUIREMENTS

ATTACHMENT G

SANTA ROSA ENERGY CENTER IDENTIFICATION OF APPLICABLE REQUIREMENTS

A. FACILITYWIDE REQUIREMENTS

FEDERAL:

40 CFR 82: Protection of Stratospheric Ozone
40 CFR 82, Subpart F: Recycling and Emissions Reduction

STATE:

Chapter 62-4, F.A.C.: Permits, effective 03/16/08

62-4.030, F.A.C.:	General Prohibition
62-4.040, F.A.C.:	Exemptions
62-4.050, F.A.C.:	Procedure to Obtain Permits; Application
62-4.060, F.A.C.:	Consultation
62-4.070, F.A.C.:	Standards for Issuing or Denying Permits; Issuance; Denial
62-4.080, F.A.C.:	Modification of Permit Conditions
62-4.090, F.A.C.:	Renewals
62-4.100, F.A.C.:	Suspension and Revocation
62-4.110, F.A.C.:	Financial Responsibility
62-4.120, F.A.C.:	Transfer of Permits
62-4.130, F.A.C.:	Plant Operation – Problems
62-4.150, F.A.C.:	Review
62-4.160, F.A.C.:	Permit Conditions
62-4.210, F.A.C.:	Construction Permits
62-4.220, F.A.C.:	Operation Permit for New Sources

Chapter 62-210, F.A.C.: Stationary Sources - General Requirements, effective 03/28/12

62-210.300, F.A.C.:	Permits Required
62-210.300(1), F.A.C.:	Air Construction Permits
62-210.300(2), F.A.C.:	Air Operation Permits
62-210.300(3), F.A.C.:	Exemptions from Permitting
62-210.300(5), F.A.C.:	Notification of Startup
62-210.300(6), F.A.C.:	Emissions Unit Reclassification
62-210.300(7), F.A.C.:	Transfer of Air Permits
62-210.350, F.A.C.:	Public Notice and Comment
62-210.350(1), F.A.C.:	Public Notice of Proposed Agency Action

ATTACHMENT G

SANTA ROSA ENERGY CENTER IDENTIFICATION OF APPLICABLE REQUIREMENTS

- 62-210.350(2), F.A.C.: Additional Public Notice Requirements for Emissions Units Subject to Prevention of Significant Deterioration or Nonattainment-Area Preconstruction Review
- 62-210.350(3), F.A.C.: Additional Public Notice Requirements for Sources Subject to Operation Permits for Title V Sources
- 62-210.360, F.A.C.: Administrative Permit Corrections and Amendments
- 62-210.370(2), F.A.C.: Computation of Emissions
- 62-210.370(3), F.A.C.: Annual Operating Report for Air Pollutant Emitting Facility
- 62-210.650, F.A.C.: Circumvention
- 62-210.700, F.A.C.: Excess Emissions
- 62-210.900, F.A.C.: Forms and Instructions
- 62-210.900(1), F.A.C.: Application for Air Permit – Long Form, Form and Instructions
- 62-210.900(5), F.A.C.: Annual Operating Report for Air Pollutant Emitting Facility, Form and Instructions
- 62-210.900(7), F.A.C.: Application for Transfer of Air Permit – Title V and Non-Title V Source.

Chapter 62-212, F.A.C.: Stationary Sources - Preconstruction Review, effective 03/28/12

- 62-212.300, F.A.C.: General Preconstruction Review Requirements
- 62-212.400, F.A.C.: Prevention of Significant Deterioration (PSD)
- 62-212.500, F.A.C.: Preconstruction Review for Nonattainment Areas
- 62-212.720, F.A.C.: Actuals Plantwide Applicability Limits (PALS)

Chapter 62-213, F.A.C.: Operation Permits for Major Sources of Air Pollution, effective 02/06/12

- 62-213.205, F.A.C.: Annual Emissions Fee
- 62-213.400, F.A.C.: Permits and Permit Revisions Required
- 62-213.405, F.A.C.: Concurrent Processing of Permit Applications
- 62-213.410, F.A.C.: Changes without Permit Revision
- 62-213.412, F.A.C.: Immediate Implementation Pending Revision Process
- 62-213.415, F.A.C.: Trading of Emissions within a Source
- 62-213.420, F.A.C.: Permit Applications

ATTACHMENT G

SANTA ROSA ENERGY CENTER IDENTIFICATION OF APPLICABLE REQUIREMENTS

62-213.430, F.A.C.: Permit Issuance, Renewal, and Revision
62-213.440, F.A.C.: Permit Content
62-213.450, F.A.C.: Permit Review by EPA and Affected States
62-213.460, F.A.C.: Permit Shield

62-213.900, F.A.C.: Forms and Instructions
62-213.900(1), F.A.C.: Major Air Pollution Source Annual Emissions Fee Form
62-213.900(7), F.A.C.: Statement of Compliance Form
62-213.900(8), F.A.C.: Responsible Official Notification Form

Chapter 62-256, F.A.C.: Open Burning and Frost Protection Fires, effective 10/06/08

Chapter 62-296, F.A.C.: Stationary Sources - Emission Standards, effective 02/06/12

62-296.320(2), F.A.C.: Objectionable Odor Prohibited
62-296.320(3), F.A.C.: Permitted Open Burning
62-296.320(4)(b), F.A.C.: General Visible Emissions Standard
62-296.320(4)(c), F.A.C.: Unconfined Emissions of Particulate Matter

Chapter 62-297, F.A.C.: Stationary Sources - Emissions Monitoring, effective 02/06/12

62-297.310, F.A.C.: General Test Requirements
62-297.320, F.A.C.: Standards for Persons Engaged in Visible Emissions Observations
62-297.401, F.A.C.: Compliance Test Methods
62-297.440, F.A.C.: Supplementary Test Procedures
62-297.620, F.A.C.: Exceptions and Approval of Alternate Procedures and Requirements

MISCELLANEOUS:

Chapter 28-106, F.A.C.: Decisions Determining Substantial Interests, effective 12/24/07

Chapter 62-110, F.A.C.: Exception to the Uniform Rules of Procedure, effective 07/01/98

ATTACHMENT G

SANTA ROSA ENERGY CENTER
IDENTIFICATION OF APPLICABLE REQUIREMENTS

B. COMBUSTION TURBINE NO. 1; EU ID NO. 001

ACID RAIN PROGRAM (ARP)

40 CFR 72	Permits Regulation
40 CFR 75	Continuous Emissions Monitoring
40 CFR 77	Excess Emissions
40 CFR 78	Appeal Procedures

CLEAN AIR INTERSTATE RULE (CAIR)

40 CFR 96	NO _x Budget Trading Program and CAIR NO _x and SO ₂ Trading Programs for State Implementation Plans
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NEW SOURCE PERFORMANCE STANDARDS

40 CFR 60, Subpart A: General Provisions	
.7:	Notification and Recordkeeping
.8:	Performance Tests
.11:	Compliance with Standards and Maintenance Requirements
.12:	Circumvention
.13:	Monitoring Requirements
.19:	General Notification and Reporting Requirements
40 CFR 60, Subpart GG: Standards of Performance for Stationary Gas Turbines	
.330:	Applicability and Designation of Affected Facility
.331:	Definitions
.332(a)(1):	Standard for Nitrogen Oxides
.333:	Standard for Sulfur Dioxide
.334(b),(c),(h),(i),(j):	Monitoring of Operations
.335:	Test Methods and Procedures

Rule 62-213.413, F.A.C.: Fast-Track Revision of Acid Rain Parts.

Chapter 62-214, F.A.C.: Requirements for Sources Subject to the Federal Acid Rain Program, effective 03-11-10

Rule 62-296.470, F.A.C.: Implementation of Federal Clean Air Interstate Rule (CAIR).

FINAL Permit No: 1130168-010-AV, Section III., Subsection A, Permit Condition Nos. A.1 – A.42 [Please see Attachment I for requested changes to the current Title V Air Operation Permit]

ATTACHMENT G

SANTA ROSA ENERGY CENTER IDENTIFICATION OF APPLICABLE REQUIREMENTS

C. EMERGENCY FIRE WATER PUMP DIESEL ENGINE

SREC includes one Cummins 146-horsepower (HP) diesel compression ignition engine, which is used drive an emergency firewater pump.

The emergency firewater pump Cummins diesel engine was manufactured after July 1, 2006, and, therefore, is subject to the applicable provisions of 40 CFR 60, Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines).

SREC is a minor or area source of hazardous air pollutants (HAPs). As a new stationary reciprocating internal combustion engine located at an area HAP source, the emergency firewater pump Cummins diesel engine is subject to the applicable requirements of 40 CFR 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants [NESHAPs] for Stationary Reciprocating Internal Combustion Engines). For new compression ignition reciprocating internal combustion engines, NESHAPs Subpart ZZZZ requires compliance with the applicable provisions of NSPS Subpart IIII.

ATTACHMENT H
COMPLIANCE REPORT

ATTACHMENT H

**SANTA ROSA ENERGY CENTER
COMPLIANCE REPORT**

Attachment G to this Title V air operation permit renewal application identifies the requirements that are applicable to the emission units that comprise the Santa Rosa Energy Center (SREC).

A copy of the most recent SREC Annual Statement of Compliance – Title V Source is provided in this attachment.



Calpine Corporation
Santa Rosa Energy Center
5001 Sterling Way
Pace, FL 32571
(850) 995-2100 (Main)
(850) 995-2150 (Fax)

February 21, 2012

Via Federal Express Tracking No. 7980 8320 2805

Florida Department of Environmental Protection
Northwest District
Air Resource Department
160 Governmental Center Pensacola, Florida 32502
(850) 595-8300 (phone)/850-595-8417 (fax)

RE: Annual Title V Compliance Statement
Santa Rosa Energy Center
Facility ID: 1130168

Please accept the attached Title V compliance statement for 2011 for the Santa Rosa Energy Center. Santa Rosa Energy Center is owned by Santa Rosa Energy Center, LLC and operated by Calpine Operating Services Company, Inc. As required by the permit, a copy of this certification is being submitted to Region IV of the Environmental Protection Agency.

If you have any technical questions, please contact Heidi Whidden at (713) 570-4829.

Sincerely,

Dana McNally
General Manager
Responsible Official

CC: US EPA—Region 4; (hard copy); Federal Express Number: 7932 5274 3273
ECMS—SharePoint Attachment



Department of Environmental Protection

Division of Air Resource Management

STATEMENT OF COMPLIANCE - TITLE V SOURCE

REASON FOR SUBMISSION (Check one to indicate why this statement of compliance is being submitted)

<input checked="" type="checkbox"/> Annual Requirement	<input type="checkbox"/> Transfer of Permit	<input type="checkbox"/> Permanent Facility Shutdown
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REPORTING PERIOD*	REPORT DEADLINE**
January 1 through December 31 of 2011 (year)	3/1/2012

*The statement of compliance must cover all conditions that were in effect during the indicated reporting period, including any conditions that were added, deleted, or changed through permit revision.

**See Rule 62-213.440(3)(a)2., F.A.C.

Facility Owner/Company Name: Santa Rosa Energy Center, LLC

Site Name: Santa Rosa Energy Center Facility ID No. 1050221 County: Santa Rosa

COMPLIANCE STATEMENT (Check only one of the following three options)

- A. This facility was in compliance with all terms and conditions of the Title V Air Operation Permit and, if applicable, the Acid Rain Part, and there were no reportable incidents of deviations from applicable requirements associated with any malfunction or breakdown of process, fuel burning or emission control equipment, or monitoring systems during the reporting period identified above.
- B. This facility was in compliance with all terms and conditions of the Title V Air Operation Permit and, if applicable, the Acid Rain Part; however, there were one or more reportable incidents of deviations from applicable requirements associated with malfunctions or breakdowns of process, fuel burning or emission control equipment, or monitoring systems during the reporting period identified above, which were reported to the Department. For each incident of deviation, the following information is included:
1. Date of report previously submitted identifying the incident of deviation.
 2. Description of the incident.
- C. This facility was in compliance with all terms and conditions of the Title V Air Operation Permit and, if applicable, the Acid Rain Part, EXCEPT those identified in the pages attached to this report and any reportable incidents of deviations from applicable requirements associated with malfunctions or breakdowns of process, fuel burning or emission control equipment, or monitoring systems during the reporting period identified above, which were reported to the Department. For each item of noncompliance, the following information is included:
1. Emissions unit identification number.
 2. Specific permit condition number (note whether the permit condition has been added, deleted, or changed during certification period).
 3. Description of the requirement of the permit condition.
 4. Basis for the determination of noncompliance (for monitored parameters, indicate whether monitoring was continuous, i.e., recorded at least every 15 minutes, or intermittent).
 5. Beginning and ending dates of periods of noncompliance.
 6. Identification of the probable cause of noncompliance and description of corrective action or preventative measures implemented.
 7. Dates of any reports previously submitted identifying this incident of noncompliance.

For each incident of deviation, as described in paragraph B. above, the following information is included:

1. Date of report previously submitted identifying the incident of deviation.
2. Description of the incident.

STATEMENT OF COMPLIANCE - TITLE V SOURCE

RESPONSIBLE OFFICIAL CERTIFICATION

I, the undersigned, am a responsible official (Title V air permit application or responsible official notification form on file with the Department) of the Title V source for which this document is being submitted. With respect to all matters other than Acid Rain program requirements, I hereby certify, based on the information and belief formed after reasonable inquiry, that the statements made and data contained in this document are true, accurate, and complete.

Dana McNally

(Signature of Title V Source Responsible Official)

2-21-12

(Date)

Name: Dana McNally

Title: General Manager

DESIGNATED REPRESENTATIVE CERTIFICATION (only applicable to Acid Rain source)

I, the undersigned, am authorized to make this submission on behalf of the owners and operators of the Acid Rain source or Acid Rain units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Dana McNally

(Signature of Acid Rain Source Designated Representative)

2-21-12

(Date)

Name: Dana McNally

Title: General Manager

{Note: Attachments, if required, are created by a responsible official or designated representative, as appropriate, and should consist of the information specified and any supporting records. Additional information may also be attached by a responsible official or designated representative when elaboration is required for clarity. This report is to be submitted to both the compliance authority (DEP district or local air program) and the U.S. Environmental Protection Agency (EPA) (U.S. EPA Region 4, Air and EPCRA Enforcement Branch, 61 Forsyth Street, Atlanta GA 30303).}

ATTACHMENT I

**REQUESTED CHANGES TO CURRENT
TITLE V AIR OPERATION PERMIT**

ATTACHMENT I

SANTA ROSA ENERGY CENTER REQUESTED CHANGES TO CURRENT TITLE V PERMIT

- Revise Section III, Subsection A.16, to read (modifications have been underlined):

Excess emissions resulting from startup, shutdown, or malfunction shall be permitted provided that best operational practices are adhered to and the duration of excess emissions shall be minimized. Permitted excess emissions occurrences shall in no case exceed two hours (120 minutes) ~~in any operating day except~~ due to start-up except during either “cold start-up” to ~~or shutdowns from~~ cogeneration and/or combined-cycle plant operation. During cold startup to cogeneration and/or combined cycle operation, up to four hours (240 minutes) of excess emissions are allowed ~~in any operating day~~. During shutdowns from cogeneration and/or combined cycle operation, up to three hours (180 minutes) of excess emissions are allowed ~~in any operating day~~. The facility shall be permitted 366 start-up events per year. Cold start-up is defined as a startup to cogeneration and/or combined cycle operation following flame out of the combustion turbine with no mode 6 operation in the interim for a minimum of 48-hours (2880 minutes). ~~An operating day is defined as a day (midnight to midnight) that includes operation.~~

The current Title V Permit allows for one start-up event per day (two hours for a “hot/warm” start and four hours for a “cold start”). To allow for market fluctuations and equipment failures, the facility requests the start-up event limits be based on a calendar year in lieu of a daily limit. Limiting the facility to 366 starts is equivalent to starting the plant under “hot/warm” conditions daily over a leap year.

- Revise Section III, Subsection A.35, to read (modifications have been underlined):

“Continuous Monitoring System Reports. ...Quality assurance procedures must conform to all applicable sections of 40 CFR 60, Appendix F or 40 CFR 75, as applicable. A valid hourly emission rate shall be calculated for each hour in which at least two measurements are obtained at least 15-minutes apart. The monitoring plan, consisting of data on CEM equipment specifications...”

This request has been made to assist in CEMs standardization across Calpine’s Florida assets. The requests language is pulled directly for the Auburndale Peaker Energy Center and Osprey Energy center Title V CEMS requirement (Permit ID: 1050334).

- Add the emergency fire pump to Appendix I.

ATTACHMENT I

SANTA ROSA ENERGY CENTER REQUESTED CHANGES TO CURRENT TITLE V PERMIT

- Add the following permit condition:

CEMS Data Exclusion—Combustor Tuning. CEMS data collected during major combustor tuning sessions shall be excluded for the CEMS compliance demonstration for short term emission standards provided the tuning session is performed in accordance with the manufacturer's specifications. All valid emissions data shall be used to demonstrate compliance with annual emission caps. A "major tuning session: would occur after completion of initial construction, a combustor change-out, a major repair or maintenance to a combustor, or other similar circumstances. Prior to performing any major tuning sessions, the permitted shall provide the Department's Northwest District Compliance Authority with advance notice that details the activity and proposing the tuning schedule. The notice shall be by telephone, facsimile transmittal, or electronic mail. [Rule: 62-4.070(3), F.A.C.]

This request has been made to assist in CEMs standardization across Calpine's Florida assets. The requests language is pulled directly for the Auburndale Peaker Energy Center and Osprey Energy center Title V CEMS requirement (Permit ID: 1050334).

ATTACHMENT J
ACID RAIN PART

Acid Rain Part Application

For more information, see instructions and refer to 40 CFR 72.30, 72.31, and 74; and Chapter 62-214, F.A.C.

This submission is: New Revised Renewal

STEP 1

Identify the source by plant name, state, and ORIS or plant code.

Santa Rosa Energy Center	Florida	55242
Plant name	State	ORIS/Plant Code

STEP 2

Enter the unit ID# for every Acid Rain unit at the Acid Rain source in column "a."

If unit a SO₂ Opt-in unit, enter "yes" in column "b".

For new units or SO₂ Opt-in units, enter the requested information in columns "d" and "e."

a	b	c	d	e
Unit ID#	SO ₂ Opt-in Unit? (Yes or No)	Unit will hold allowances in accordance with 40 CFR 72.9(c)(1)	New or SO ₂ Opt-in Units Commence Operation Date	New or SO ₂ Opt-in Units Monitor Certification Deadline
CT-1	No	Yes	N/A	N/A

Santa Rosa Energy Center

Plant Name (from STEP 1)

STEP 3

Read the standard requirements.

Acid Rain Part Requirements.

- (1) The designated representative of each Acid Rain source and each Acid Rain unit at the source shall:
 - (i) Submit a complete Acid Rain Part application (including a compliance plan) under 40 CFR Part 72 and Rules 62-214.320 and 330, F.A.C., in accordance with the deadlines specified in Rule 62-214.320, F.A.C.; and
 - (ii) Submit in a timely manner any supplemental information that the DEP determines is necessary in order to review an Acid Rain Part application and issue or deny an Acid Rain Part;
- (2) The owners and operators of each Acid Rain source and each Acid Rain unit at the source shall:
 - (i) Operate the unit in compliance with a complete Acid Rain Part application or a superseding Acid Rain Part issued by the DEP; and
 - (ii) Have an Acid Rain Part.

Monitoring Requirements.

- (1) The owners and operators and, to the extent applicable, designated representative of each Acid Rain source and each Acid Rain unit at the source shall comply with the monitoring requirements as provided in 40 CFR Part 75, and Rule 62-214.420, F.A.C.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR Part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR Part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.
- (4) For applications including a SO₂ Opt-in unit, a monitoring plan for each SO₂ Opt-in unit must be submitted with this application pursuant to 40 CFR 74.14(a). For renewal applications for SO₂ Opt-in units include an updated monitoring plan if applicable under 40 CFR 75.53(b).

Sulfur Dioxide Requirements.

- (1) The owners and operators of each source and each Acid Rain unit at the source shall:
 - (i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)), or in the compliance subaccount of another Acid Rain unit at the same source to the extent provided in 40 CFR 73.35(b)(3), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
 - (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An Acid Rain unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
 - (i) Starting January 1, 2000, an Acid Rain unit under 40 CFR 72.6(a)(2); or
 - (ii) Starting on the later of January 1, 2000, or the deadline for monitor certification under 40 CFR Part 75, an Acid Rain unit under 40 CFR 72.6(a)(3).
- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain Part application, the Acid Rain Part, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements. The owners and operators of the source and each Acid Rain unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements.

- (1) The designated representative of an Acid Rain unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR Part 77.
- (2) The owners and operators of an Acid Rain unit that has excess emissions in any calendar year shall:
 - (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR Part 77; and
 - (ii) Comply with the terms of an approved offset plan, as required by 40 CFR Part 77.

Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the source and each Acid Rain unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the EPA or the DEP:
 - (i) The certificate of representation for the designated representative for the source and each Acid Rain unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with Rule 62-214.350, F.A.C.; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
 - (ii) All emissions monitoring information, in accordance with 40 CFR Part 75, provided that to the extent that 40 CFR Part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply;
 - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,

Santa Rosa Energy Center

Plant Name (from STEP 1)

**STEP 3,
Continued.**

Recordkeeping and Reporting Requirements (cont)

(iv) Copies of all documents used to complete an Acid Rain Part application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.

(2) The designated representative of an Acid Rain source and each Acid Rain unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR Part 72, Subpart I, and 40 CFR Part 75.

Liability.

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain Part application, an Acid Rain Part, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.

(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.

(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.

(4) Each Acid Rain source and each Acid Rain unit shall meet the requirements of the Acid Rain Program.

(5) Any provision of the Acid Rain Program that applies to an Acid Rain source (including a provision applicable to the designated representative of an Acid Rain source) shall also apply to the owners and operators of such source and of the Acid Rain units at the source.

(6) Any provision of the Acid Rain Program that applies to an Acid Rain unit (including a provision applicable to the designated representative of an Acid Rain unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR Part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one Acid Rain unit shall not be liable for any violation by any other Acid Rain unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.

(7) Each violation of a provision of 40 CFR Parts 72, 73, 74, 75, 76, 77, and 78 by an Acid Rain source or Acid Rain unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities.

No provision of the Acid Rain Program, an Acid Rain Part application, an Acid Rain Part, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an Acid Rain source or Acid Rain unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a unit can hold; *provided*, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;

(3) Requiring a change of any kind in any state law regulating electric utility rates and charges, affecting any state law regarding such state regulation, or limiting such state regulation, including any prudence review requirements under such state law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a state in which such program is established.

STEP 4

For SO₂ Opt-in units only.

In column "f" enter the unit ID# for every SO₂ Opt-in unit identified in column "a" of STEP 2.

For column "g" describe the combustion unit and attach information and diagrams on the combustion unit's configuration.

In column "h" enter the hours.

f	g	h (not required for renewal application)
Unit ID#	Description of the combustion unit	Number of hours unit operated in the six months preceding initial application

Santa Rosa Energy Center
Plant Name (from STEP 1)

STEP 5

For SO₂ Opt-in units only.
(Not required for SO₂ Opt-in renewal applications.)

In column "i" enter the unit ID# for every SO₂ Opt-in unit identified in column "a" (and in column "f").

For columns "j" through "n," enter the information required under 40 CFR 74.20-74.25 and attach all supporting documentation required by 40 CFR 74.20-74.25.

i	j	k	l	m	n
Unit ID#	Baseline or Alternative Baseline under 40 CFR 74.20 (mmBtu)	Actual SO ₂ Emissions Rate under 40 CFR 74.22 (lbs/mmBtu)	Allowable 1985 SO ₂ Emissions Rate under 40 CFR 74.23 (lbs/mmBtu)	Current Allowable SO ₂ Emissions Rate under 40 CFR 74.24 (lbs/mmBtu)	Current Promulgated SO ₂ Emissions Rate under 40 CFR 74.25 (lbs/mmBtu)

STEP 6

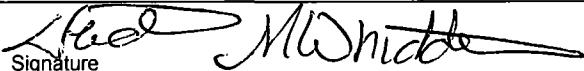
For SO₂ Opt-in units only.

Attach additional requirements, certify and sign.

- A. If the combustion source seeks to qualify for a transfer of allowances from the replacement of thermal energy, a thermal energy plan as provided in 40 CFR 74.47 for combustion sources must be attached.
- B. A statement whether the combustion unit was previously an affected unit under 40 CFR 74.
- C. A statement that the combustion unit is not an affected unit under 40 CFR 72.6 and does not have an exemption under 40 CFR 72.7, 72.8, or 72.14.
- D. Attach a complete compliance plan for SO₂ under 40 CFR 72.40.
- E. The designated representative of the combustion unit shall submit a monitoring plan in accordance with 40 CFR 74.61. For renewal application, submit an updated monitoring plan if applicable under 40 CFR 75.53(b).
- F. The following statement must be signed by the designated representative or alternate designated representative of the combustion source: "I certify that the data submitted under 40 CFR Part 74, Subpart C, reflects actual operations of the combustion source and has not been adjusted in any way."

STEP 7

Read the certification statement; provide name, title, owner company name, phone, and e-mail address; sign, and date.

Signature		Date	
Certification (for designated representative or alternate designated representative only)			
I am authorized to make this submission on behalf of the owners and operators of the Acid Rain source or Acid Rain units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.			
Heidi Whidden Name		Director - Environmental Services Southeast Region Title	
Santa Rosa Energy Center, LLC Owner Company Name			
(713) 570-4829 Phone		Heidi.Whidden@calpine.com E-mail address	
 Signature		Date 5/15/12	

ATTACHMENT K
CLEAN AIR INTERSTATE RULE (CAIR) PART

Clean Air Interstate Rule (CAIR) Part

For more information, see instructions and refer to 40 CFR 96.121, 96.122, 96.221, 96.222, 96.321 and 96.322; and Rule 62-296.470, F.A.C.

This submission is: New Revised Renewal

STEP 1

Identify the source by plant name and ORIS or EIA plant code

Plant Name: Santa Rosa Energy Center	State: Florida	ORIS or EIA Plant Code: 55242
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STEP 2

In column "a" enter the unit ID# for every CAIR unit at the CAIR source.

In columns "b," "c," and "d," indicate to which CAIR program(s) each unit is subject by placing an "X" in the column(s).

For new units, enter the requested information in columns "e" and "f."

a	b	c	d	e	f
Unit ID#	Unit will hold nitrogen oxides (NO _x) allowances in accordance with 40 CFR 96.106(c)(1)	Unit will hold sulfur dioxide (SO ₂) allowances in accordance with 40 CFR 96.206(c)(1)	Unit will hold NO _x Ozone Season allowances in accordance with 40 CFR 96.306(c)(1)	New Units Expected Commence Commercial Operation Date	New Units Expected Monitor Certification Deadline
CT-1	X	X	X	N/A	N/A

STEP 3

Read the standard requirements.

Santa Rosa Energy Center

Plant Name (from STEP 1)

CAIR NO_x ANNUAL TRADING PROGRAM

CAIR Part Requirements.

- (1) The CAIR designated representative of each CAIR NO_x source and each CAIR NO_x unit at the source shall:
 - (i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.122 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C., and
 - (ii) [Reserved];
- (2) The owners and operators of each CAIR NO_x source and each CAIR NO_x unit at the source shall have a CAIR Part included in the Title V operating permit issued by the DEP under 40 CFR Part 96, Subpart CC, and operate the source and the unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

- (1) The owners and operators, and the CAIR designated representative, of each CAIR NO_x source and each CAIR NO_x unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 96, Subpart HH, and Rule 62-296.470, F.A.C.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HH, shall be used to determine compliance by each CAIR NO_x source with the following CAIR NO_x Emissions Requirements.

NO_x Emission Requirements.

- (1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_x source and each CAIR NO_x unit at the source shall hold, in the source's compliance account, CAIR NO_x allowances available for compliance deductions for the control period under 40 CFR 96.154(a) in an amount not less than the tons of total NO_x emissions for the control period from all CAIR NO_x units at the source, as determined in accordance with 40 CFR Part 96, Subpart HH.
- (2) A CAIR NO_x unit shall be subject to the requirements under paragraph (1) of the NO_x Requirements starting on the later of January 1, 2009, or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.170(b)(1) or (2) and for each control period thereafter.
- (3) A CAIR NO_x allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the NO_x Requirements, for a control period in a calendar year before the year for which the CAIR NO_x allowance was allocated.
- (4) CAIR NO_x allowances shall be held in, deducted from, or transferred into or among CAIR NO_x Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FF and GG.
- (5) A CAIR NO_x allowance is a limited authorization to emit one ton of NO_x in accordance with the CAIR NO_x Annual Trading Program. No provision of the CAIR NO_x Annual Trading Program, the CAIR Part, or an exemption under 40 CFR 96.105 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.
- (6) A CAIR NO_x allowance does not constitute a property right.
- (7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart EE, FF, or GG, every allocation, transfer, or deduction of a CAIR NO_x allowance to or from a CAIR NO_x unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR NO_x unit.

Excess Emissions Requirements.

If a CAIR NO_x source emits NO_x during any control period in excess of the CAIR NO_x emissions limitation, then:

- (1) The owners and operators of the source and each CAIR NO_x unit at the source shall surrender the CAIR NO_x allowances required for deduction under 40 CFR 96.154(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law; and
- (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AA, the Clean Air Act, and applicable state law.

Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the CAIR NO_x source and each CAIR NO_x unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the DEP or the Administrator.
 - (i) The certificate of representation under 40 CFR 96.113 for the CAIR designated representative for the source and each CAIR NO_x unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR 96.113 changing the CAIR designated representative.
 - (ii) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HH, of this part, provided that to the extent that 40 CFR Part 96, Subpart HH, provides for a 3-year period for recordkeeping, the 3-year period shall apply.
 - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO_x Annual Trading Program.
 - (iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR NO_x Annual Trading Program or to demonstrate compliance with the requirements of the CAIR NO_x Annual Trading Program.
- (2) The CAIR designated representative of a CAIR NO_x source and each CAIR NO_x unit at the source shall submit the reports required under the CAIR NO_x Annual Trading Program, including those under 40 CFR Part 96, Subpart HH.

Santa Rosa Energy Center

Plant Name (from STEP 1)

Liability.

- (1) Each CAIR NO_x source and each CAIR NO_x unit shall meet the requirements of the CAIR NO_x Annual Trading Program.
- (2) Any provision of the CAIR NO_x Annual Trading Program that applies to a CAIR NO_x source or the CAIR designated representative of a CAIR NO_x source shall also apply to the owners and operators of such source and of the CAIR NO_x units at the source.
- (3) Any provision of the CAIR NO_x Annual Trading Program that applies to a CAIR NO_x unit or the CAIR designated representative of a CAIR NO_x unit shall also apply to the owners and operators of such unit.

Effect on Other Authorities.

No provision of the CAIR NO_x Annual Trading Program, a CAIR Part, or an exemption under 40 CFR 96.105 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO_x source or CAIR NO_x unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

CAIR SO₂ TRADING PROGRAM

CAIR Part Requirements.

- (1) The CAIR designated representative of each CAIR SO₂ source and each CAIR SO₂ unit at the source shall:
 - (i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.222 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and
 - (ii) [Reserved];
- (2) The owners and operators of each CAIR SO₂ source and each CAIR SO₂ unit at the source shall have a CAIR Part included in the Title V operating permit issued by the DEP under 40 CFR Part 96, Subpart CCC, for the source and operate the source and each CAIR unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

- (1) The owners and operators, and the CAIR designated representative, of each CAIR SO₂ source and each SO₂ CAIR unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 96, Subpart HHH, and Rule 62-296.470, F.A.C.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HHH, shall be used to determine compliance by each CAIR SO₂ source with the following CAIR SO₂ Emission Requirements.

SO₂ Emission Requirements.

- (1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO₂ source and each CAIR SO₂ unit at the source shall hold, in the source's compliance account, a tonnage equivalent in CAIR SO₂ allowances available for compliance deductions for the control period, as determined in accordance with 40 CFR 96.254(a) and (b), not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO₂ units at the source, as determined in accordance with 40 CFR Part 96, Subpart HHH.
- (2) A CAIR SO₂ unit shall be subject to the requirements under paragraph (1) of the Sulfur Dioxide Emission Requirements starting on the later of January 1, 2010 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.270(b)(1) or (2) and for each control period thereafter.
- (3) A CAIR SO₂ allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the SO₂ Emission Requirements, for a control period in a calendar year before the year for which the CAIR SO₂ allowance was allocated.
- (4) CAIR SO₂ allowances shall be held in, deducted from, or transferred into or among CAIR SO₂ Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FFF and GGG.
- (5) A CAIR SO₂ allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO₂ Trading Program. No provision of the CAIR SO₂ Trading Program, the CAIR Part, or an exemption under 40 CFR 96.205 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.
- (6) A CAIR SO₂ allowance does not constitute a property right.
- (7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart FFF or GGG, every allocation, transfer, or deduction of a CAIR SO₂ allowance to or from a CAIR SO₂ unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR SO₂ unit.

Excess Emissions Requirements.

If a CAIR SO₂ source emits SO₂ during any control period in excess of the CAIR SO₂ emissions limitation, then:

- (1) The owners and operators of the source and each CAIR SO₂ unit at the source shall surrender the CAIR SO₂ allowances required for deduction under 40 CFR 96.254(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law; and
- (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AAA, the Clean Air Act, and applicable state law.

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Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR SO₂ source and each CAIR SO₂ unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Department or the Administrator.

(i) The certificate of representation under 40 CFR 96.213 for the CAIR designated representative for the source and each CAIR SO₂ unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR 96.213 changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HHH, of this part, provided that to the extent that 40 CFR Part 96, Subpart HHH, provides for a 3-year period for recordkeeping, the 3-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR SO₂ Trading Program.

(iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR SO₂ Trading Program or to demonstrate compliance with the requirements of the CAIR SO₂ Trading Program.

(2) The CAIR designated representative of a CAIR SO₂ source and each CAIR SO₂ unit at the source shall submit the reports required under the CAIR SO₂ Trading Program, including those under 40 CFR Part 96, Subpart HHH.

Liability.

(1) Each CAIR SO₂ source and each CAIR SO₂ unit shall meet the requirements of the CAIR SO₂ Trading Program.

(2) Any provision of the CAIR SO₂ Trading Program that applies to a CAIR SO₂ source or the CAIR designated representative of a CAIR SO₂ source shall also apply to the owners and operators of such source and of the CAIR SO₂ units at the source.

(3) Any provision of the CAIR SO₂ Trading Program that applies to a CAIR SO₂ unit or the CAIR designated representative of a CAIR SO₂ unit shall also apply to the owners and operators of such unit.

Effect on Other Authorities.

No provision of the CAIR SO₂ Trading Program, a CAIR Part, or an exemption under 40 CFR 96.205 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR SO₂ source or CAIR SO₂ unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

CAIR NO_x OZONE SEASON TRADING PROGRAM

CAIR Part Requirements.

(1) The CAIR designated representative of each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall:

(i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.322 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and

(ii) [Reserved];

(2) The owners and operators of each CAIR NO_x Ozone Season source required to have a Title V operating permit or air construction permit, and each CAIR NO_x Ozone Season unit required to have a Title V operating permit or air construction permit at the source shall have a CAIR Part included in the Title V operating permit or air construction permit issued by the DEP under 40 CFR Part 96, Subpart CCCC, for the source and operate the source and the unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

(1) The owners and operators, and the CAIR designated representative, of each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 96, Subpart HHHH, and Rule 62-296.470, F.A.C.

(2) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HHHH, shall be used to determine compliance by each CAIR NO_x Ozone Season source with the following CAIR NO_x Ozone Season Emissions Requirements.

NO_x Ozone Season Emission Requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NO_x Ozone Season allowances available for compliance deductions for the control period under 40 CFR 96.354(a) in an amount not less than the tons of total NO_x emissions for the control period from all CAIR NO_x Ozone Season units at the source, as determined in accordance with 40 CFR Part 96, Subpart HHHH.

(2) A CAIR NO_x Ozone Season unit shall be subject to the requirements under paragraph (1) of the NO_x Ozone Season Emission Requirements starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.370(b)(1),(2), or (3) and for each control period thereafter.

(3) A CAIR NO_x Ozone Season allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the NO_x Ozone Season Emission Requirements, for a control period in a calendar year before the year for which the CAIR NO_x Ozone Season allowance was allocated.

(4) CAIR NO_x Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NO_x Ozone Season Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FFFF and GGGG.

(5) A CAIR NO_x Ozone Season allowance is a limited authorization to emit one ton of NO_x in accordance with the CAIR NO_x Ozone Season Trading Program. No provision of the CAIR NO_x Ozone Season Trading Program, the CAIR Part, or an exemption under 40 CFR 96.305 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.

(6) A CAIR NO_x Ozone Season allowance does not constitute a property right.

(7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart EEEE, FFFF or GGGG, every allocation, transfer, or deduction of a CAIR NO_x Ozone Season allowance to or from a CAIR NO_x Ozone Season unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR NO_x Ozone Season unit.

**STEP 3,
Continued**

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Excess Emissions Requirements.

If a CAIR NO_x Ozone Season source emits NO_x during any control period in excess of the CAIR NO_x Ozone Season emissions limitation, then:
 (1) The owners and operators of the source and each CAIR NO_x Ozone Season unit at the source shall surrender the CAIR NO_x Ozone Season allowances required for deduction under 40 CFR 96.354(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law; and
 (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AAAAA, the Clean Air Act, and applicable state law.

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the DEP or the Administrator.
 (i) The certificate of representation under 40 CFR 96.313 for the CAIR designated representative for the source and each CAIR NO_x Ozone Season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR 96.113 changing the CAIR designated representative.
 (ii) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HHHH, of this part, provided that to the extent that 40 CFR Part 96, Subpart HHHH, provides for a 3-year period for recordkeeping, the 3-year period shall apply.
 (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO_x Ozone Season Trading Program.
 (iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR NO_x Ozone Season Trading Program or to demonstrate compliance with the requirements of the CAIR NO_x Ozone Season Trading Program.
 (2) The CAIR designated representative of a CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall submit the reports required under the CAIR NO_x Ozone Season Trading Program, including those under 40 CFR Part 96, Subpart HHHH.

Liability.

(1) Each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit shall meet the requirements of the CAIR NO_x Ozone Season Trading Program.
 (2) Any provision of the CAIR NO_x Ozone Season Trading Program that applies to a CAIR NO_x Ozone Season source or the CAIR designated representative of a CAIR NO_x Ozone Season source shall also apply to the owners and operators of such source and of the CAIR NO_x Ozone Season units at the source.
 (3) Any provision of the CAIR NO_x Ozone Season Trading Program that applies to a CAIR NO_x Ozone Season unit or the CAIR designated representative of a CAIR NO_x Ozone Season unit shall also apply to the owners and operators of such unit.

Effect on Other Authorities.

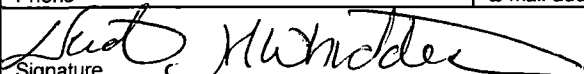
No provision of the CAIR NO_x Ozone Season Trading Program, a CAIR Part, or an exemption under 40 CFR 96.305 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO_x Ozone Season source or CAIR NO_x Ozone Season unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

STEP 4

Certification (for designated representative or alternate designated representative only)

Read the certification statement; provide name, title, owner company name, phone, and e-mail address; sign, and date.

I am authorized to make this submission on behalf of the owners and operators of the CAIR source or CAIR units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Heidi Whidden Name	Director - Environmental Services Southeast Region Title
Santa Rosa Energy Center, LLC Owner Company Name	
(713) 570-4829 Phone	Heidi.Whidden@calpine.com E-mail address
 Signature	5/15/12 Date

ATTACHMENT L
FUEL SPECIFICATIONS

ATTACHMENT L

SANTA ROSA ENERGY CENTER FUEL ANALYSES OR SPECIFICATIONS

Natural Gas (typical composition)

Component	Mole Percent (by volume)
<u>Gas Composition</u>	
Hexane+	0.018
Propane	0.190
I-butane	0.010
N-butane	0.007
Pentane	0.002
Nitrogen	0.527
Methane	96.195
CO ₂	0.673
Ethane	2.379
<u>Other Characteristics</u>	
Heat content (HHV)	1,030 Btu/ft ³ at 14.73 psia, dry
Real specific gravity	0.5803
Sulfur content	0.5 gr/100 scf

Note: Btu/ft³ = British thermal units per cubic foot.
psia = pounds per square inch absolute.
gr/100 scf = grains per 100 standard cubic foot.

ATTACHMENT M
PROCEDURES FOR STARTUP AND SHUTDOWN

ATTACHMENT M

SANTA ROSA ENERGY CENTER PROCEDURES FOR STARTUP AND SHUTDOWN

COMBUSTION TURBINE NO. 1

Operations and maintenance of the General Electric (GE) 7FA combustion turbine generator (CTG) is consistent with normal manufacturer and industry standards. The site maintains historical records of operations and maintenance activities.

STARTUP SEQUENCE

Startup of the GE 7FA CTG is implemented by means of a computer-controlled startup sequencer. The startup sequencer is given a START command by the control room operator. Immediately following this, the CTG is given the "AUTO-SYNCH" command. The startup sequencer then controls startup up to synchronous speed, at which point the CTG automatically synchronizes to the power grid. The control room operator then monitors and manages the plant startup and all environmental aspects of turbine start up.

SHUTDOWN SEQUENCE

CTG shutdown occurs in a similar fashion as the startup. Shutdown of the GE CTG is implemented by means of a computer-controlled shutdown sequencer following gradual reduction of plant output. The CTG's shutdown sequencer is given a STOP command by the control room operator. The shutdown sequencer then further reduces CTG load, disconnects the CTG from the power grid (opens the generator breaker), allows the CTG to cool for 3 minutes in a controlled manner, and then closes the fuel supply. Once the CTG has cooled sufficiently it is allowed to coast down and will automatically go on turning gear.

COOLING TOWER

STARTUP SEQUENCE

Operation of the cooling tower may be started either before or after operation of the turbine has started. The cooling tower is started by starting the mini-circulation pump and then by starting one of the two circulating pumps. Cooling tower fans are started at low speed as required to respond to the plant heat demand and operating conditions. All required steps are initiated from the control room.

SHUTDOWN SEQUENCE

Cooling tower shutdown reverses the cooling tower start up sequence.