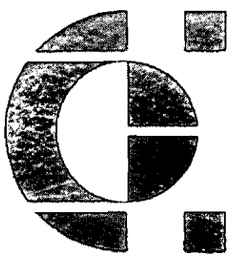
CALPINE CONSTRUCTION FINANCE COMPANY, LP
AUBURNDALE PEAKER ENERGY CENTER, LLC
AUBURNDALE POWER PARTNERS, L.P.

TITLE V OPERATION PERMIT RENEWAL APPLICATION

Prepared for:



CALPINE OPERATING SERVICES COMPANY, INC.
Auburndale, Florida

Prepared by:

ECT

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

ECT No. 070546-0100

June 2007

FACILITY ID: 1050221

BEST AVAILABLE COPY

PROJECT #: 0012 } 013
PERMIT TYPE: AC } AV

PSD-FL-_____

PATS #: _____

DOCUMENT TYPE(S)/DATE:
✓ Application/ 7-5-07

___ Correspondence/_____

___ Intent/_____

___ Permit/_____

___ OGC/_____

___ Amendment/_____

Comments:

Both Scanned 7/13/07 ✓tt

CALPINE CONSTRUCTION FINANCE COMPANY, LP
AUBURNDALE PEAKER ENERGY CENTER, LLC
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TITLE V OPERATION PERMIT RENEWAL APPLICATION

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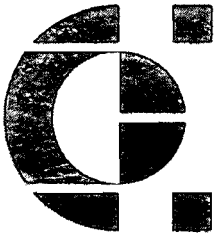

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Gainesville, Florida 32606

ECT No. 070546-0100

June 2007

CALPINE

CALPINE CENTER
717 TEXAS AVENUE
SUITE 1000
HOUSTON, TEXAS 77002
713.830.2000
713.830.2001 (FAX)

July 2, 2007

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

Re: Auburndale Energy Complex
Osprey Energy Center
Title V Air Operation FINAL Permit No.: 0150221-009-AV
PSD Permit Number: PSD-FL-287
Request for Permit Revision, EU-007 and EU-009 Heat Input
Project No.: 1050221-012-AC | 1050221-013-AV

Dear Mr. Koerner:

Calpine Construction Finance Company, L.P. owns Osprey Energy Center (OEC) located at the Auburndale Energy Complex in Auburndale, Polk County, Florida. OEC consists of two combined cycle combustion turbine systems with each combined cycle system consisting of one 170 MW Siemens Westinghouse "F" Class (501FD) combustion turbine (CT), one heat recovery steam generator (HRSG), and one shared 200 MW steam turbine-generator. The CTs are designated as EU007 and EU009 at the Auburndale Energy Complex.

The Florida Department of Environmental Protection (FDEP) issued Air Construction Permit No. PSD-FL-287 on March 1, 2001 authorizing construction and initial operation of EU007 and EU009 (referred to in the Air Construction Permit as CT-1 and CT-2 at the OEC). Title V Air Operation Permit (FINAL Permit No.: 0150221-009-AV) was last revised on December 13, 2006, authorizing continuing operation of the Auburndale Energy Complex with the OEC emission units. The purpose of this letter is to request a concurrent revision to these two permits to allow for an increase in permitted capacity for the two units EU007 and EU009.

Please note, the Title V Renewal Application is currently being processed at this time. Minor language changes have been requested as part of the Title V Renewal. Numbers presented in this modification have been represented in the renewal application.

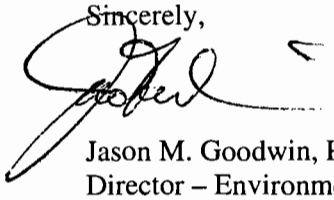
Section III, Condition D.1. of FINAL Permit No.: 1050221-009-AV limits the turbine heat input to 1,669 million British thermal units per hour on a lower heating value basis (mmBtu/hr, LHV) at a compressor inlet temperature of 59°F when firing natural gas without power augmentation. The corresponding heat input limitations are contained in Specific Condition No. 9 of Air Construction Permit No. PSD-FL-287. Operational data for OEC indicates that these maximum heat inputs, which were based on gas turbine vendor projections, underestimate the actual performance of the gas turbines by approximately 12 percent.

Accordingly, CCFC requests revisions to FINAL Permit No.: 1050221-009-AV, Condition D.1 and Air Construction Permit No. PSD-FL-287, Specific Condition No. 9 to allow a maximum heat inputs of 1875 mmBtu/hr, LHV at a compressor inlet temperature of 59°F when firing natural gas without power augmentation. OEC does not request any other revisions to FINAL Permit No.: 1050221-009-AV or Air Construction Permit No. PSD-FL-287. Units EU007 and EU009 will continue to comply with all of the current emission limitations and standards specified by FINAL Permit No.: 0150221-009-AV.

In support of this Title V permit revision request, a completed Application for Air Permit - Long Form (Facility Information section only, including Application Responsible Official and Professional Engineer certifications) is enclosed.

Please feel free to contact me (by telephone at (713) 570-4795 or by email at jgoodwin@calpine.com) or Heidi Whidden (by telephone at (713) 570-4829 or by email at hwhidden@calpine.com) if you have any questions regarding this permit revision request.

Sincerely,



Jason M. Goodwin, P.E.
Director – Environmental, Health & Safety
Eastern Power Region

INTRODUCTION

FACILITY OVERVIEW

Calpine Operating Services Company, Inc. (COSCI), currently operates the Auburndale Energy Complex located in Auburndale, Polk County, Florida, under Final Permit Number 1050221-009-AV. The Auburndale Energy Complex consists of four collocated combustion turbines (CTs) which are owned by the following three different owners:

- Emission unit (EU) 001 is a combined-cycle CT rated at 156 megawatt (MW) and is owned by Auburndale Power Partners, L.P. (APP).
- EU006 is a simple-cycle CT rated at 120 MW and is owned by Auburndale Peaker Energy Center, LLC (APEC).
- EU007 through EU010 are two combined-cycle CTs with duct burners rated at 527 MW total and owned by Calpine Construction Finance Company, Inc. EU007 thru EU010 comprise what is referred to as the Osprey Energy Center (OEC).

Other emissions units located at Auburndale Energy Complex include two fuel oil storage tanks (EU002) and one cooling tower (EU011).

Pursuant to Rule 62-213.420(1)(a)3. and Rule 62-4.090, Florida Administrative Code (F.A.C.), an application for renewal of a Title V operation permit must be submitted 180 days prior to the expiration date of the current Title V permit. Since Final Title V Permit No. 1050221-009-AV expires on December 31, 2007, the permit renewal application for Auburndale Energy Complex must be submitted no later than July 5, 2007. This application package, consisting of Florida Department of Environmental Protection's (FDEP's) *Application for Air Permit–Long Form* and all required supplemental facility and emission unit information, constitutes COSCI's Title V permit renewal application for Auburndale Energy Complex and is submitted to satisfy the requirements of Section 62-213.400, F.A.C.

REQUEST FOR PERMIT APPLICATION SHIELD

COSCI has made efforts to ensure that this permit application is administratively complete as filed and has submitted the application prior to the renewal application due

date stated in Final permit No. 1050221-009-AV. Pursuant to Rule 62-213.420(1(b)2, F.A.C., COSCI understands that operation of the OEC may continue under the terms of its existing Title V operation permit issuance of the renewed Title V operation permit (i.e., the application shield provision).

REQUEST FOR PERMIT SHIELD

Pursuant to Section 62-213.460, F.A.C., COSCI requests that the renewed Title V operation permit contain a condition stating that *compliance with the terms and conditions of a permit issued pursuant to this chapter shall be deemed compliance with any applicable requirements in effect as of the date of permit issuance, provided that the source included such applicable requirements in the permit application.* Attachment A-5 of this Title V operation permit renewal application provides a comprehensive list of the requirements that do and do not apply for permit shield purposes.

CLEAN AIR INTERSTATE RULE

EU001, EU006, EU007, and EU008 will be subject to the Clean Air Interstate Rule (CAIR) when these requirements become effective.

REQUESTED CHANGES TO CURRENT TITLE V AIR OPERATION PERMIT

All requested changes to the current Title V Air Operation Permit are outlined in Attachment A-7.

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

Attachment	Description
A-1	Facility Plot Plan
A-2	Process Flow Diagram
A-3	Precautions to Prevent Emissions of Unconfined Particulate Matter
A-4	List of Insignificant Activities
A-5	Identification of Applicable Requirements
A-6	Compliance Report and Plan/Compliance Certification
A-7	Requested Changes to Current Title V Air Operation Permit
A-8	Fuel Analysis or Specifications
A-9	Detailed Description of Control Equipment
A-10	Procedures for Startup and Shutdown
A-11	Acid Rain Part—Auburndale Cogeneration Facility
A-12	Acid Rain Part—Osprey Energy Center

Department of Environmental Protection

Division of Air Resource Management

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APPLICATION FOR AIR PERMIT - LONG FORM

I. APPLICATION INFORMATION

Air Construction Permit – Use this form to apply for any air construction permit at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air permit. Also use this form to apply for an air construction permit:

- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment area (NAA) new source review, or maximum achievable control technology (MACT) review; or
- Where the applicant proposes to assume a restriction on the potential emissions of one or more pollutants to escape a federal program requirement such as PSD review, NAA new source review, Title V, or MACT; or
- Where the applicant proposes 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/renewal Title V air operation permit.

Air Construction Permit & Title V Air Operation Permit (Concurrent Processing Option) – Use this form to apply for both an air construction permit and a revised or renewal Title V air operation permit incorporating the proposed project.

To ensure accuracy, please see form instructions.

Identification of Facility

1. Facility Owner/Company Name: Auburndale Power Partners. L.P. (APP); Auburndale Peaker Energy Center, LLC (APEC); Calpine Construction Finance Company, L.P. (OEC)
2. Site Name: Auburndale Energy Complex
3. Facility Identification Number: 1050221
4. Facility Location...
   Street Address or Other Locator: 1651 West Derby Avenue
   City: Aurburndale County: Polk Zip Code: 33823
5. Relocatable Facility? ☐ Yes ☒ No
6. Existing Title V Permitted Facility? ☒ Yes ☐ No

Application Contact

1. Application Contact Name: Heidi M. Whidden
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
3. Application Contact Telephone Numbers...
   Telephone: (713) 570-4829 ext. Fax: (please email)
4. Application Contact Email Address: hwhidden@calpine.com

Application Processing Information (DEP Use)

1. Date of Receipt of Application:
2. Project Number(s): 1050221-012-AC
3. PSD Number (if applicable):
4. Siting Number (if applicable):

APPLICATION INFORMATION

Purpose of Application

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

Air Construction Permit

☐ Air construction permit.

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

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

Air Operation Permit

☐ Initial Title V air operation permit.

☐ Title V air operation permit revision.

☐ Title V air operation permit renewal.

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

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

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

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

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

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

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

Application Comment

Separate submittals requesting modification to the PSD permits have been submitted. The modifications requested in these submittals have been included in this Title V permit renewal application.

APPLICATION INFORMATION

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Proc. Fee
001	Combined Cycle Combustion Turbine (APP)	N/A	N/A
006	Simple Cycle Combustion Turbine (APEC)	N/A	N/A
007	170 MW Gas Combustion Turbine-Electrical Generator (OEC)	N/A	N/A
008	170 MW Gas Combustion Turbine-Electrical Generator (OEC)	N/A	N/A
009	Duct Burner with Supplementary HRSG (OEC)	N/A	N/A
010	Duct Burner with Supplementary HRSG (OEC)	N/A	N/A
011	Cooling Tower (OEC)	N/A	N/A

Application Processing Fee

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

APPLICATION INFORMATION

Owner/Authorized Representative Statement

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

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 Email Address:

5. Owner/Authorized Representative Statement:

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

   Signature Date

APPLICATION INFORMATION

Application Responsible Official Certification

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

1. Application Responsible Official Name: Jason Goodwin

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

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

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

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

   ☒ The designated representative at an Acid Rain source.

3. Application Responsible Official Mailing Address...
   Organization/Firm: Calpine Corporation
   Street Address: 717 Texas Avenue, Suite 1000
   City: Houston State: Texas Zip Code: 77002

4. Application Responsible Official Telephone Numbers...
   Telephone: (713) 570-4795 ext. Fax: (713) 332-5168

5. Application Responsible Official Email Address: jgoodwin@calpine.com

6. Application Responsible Official Certification:

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

Signature

7/2/07
Date

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
3. Professional Engineer Telephone Numbers...
   Telephone: (352) 332 - 0444 ext. 11351 Fax: (352) 332 - 6722
4. Professional Engineer Email Address: tdavis@ectinc.com
5. Professional Engineer Statement:

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

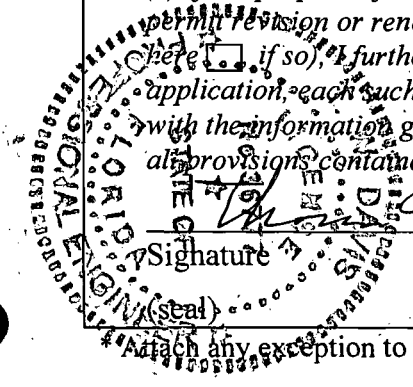
(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions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

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

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

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

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



Signature (seal) Date: 6/28/07

Attach any exception to certification statement.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates... Zone 17 East (km) 420.8 North (km) 3103.3		2. Facility Latitude/Longitude... Latitude (DD/MM/SS) 28/03/06 Longitude (DD/MM/SS) 81/48/21	
3. Governmental Facility Code: 0	4. Facility Status Code: A	5. Facility Major Group SIC Code: 49	6. Facility SIC(s): 4931
7. Facility Comment : Auburndale Energy Complex consists of Auburndale Power Partners LP (APP), Auburndale Peaker Energy Center LLC (APEC), and the Osprey Energy Center (OEC) owned by Calpine Construction Finance Company, L.P. Auburndale Energy Complex is operated by Calpine Operating Services Company Inc. (COSCI).			

Facility Contact

1. Facility Contact Name: Robert Callery
2. Facility Contact Mailing Address... Organization/Firm: Calpine Operating Services Company, Inc. Street Address: 1651 Derby Avenue City: Tampa State: Florida Zip Code: 33823
3. Facility Contact Telephone Numbers: Telephone: (863) 551-4665 ext. Fax: (863) 537-4666
4. Facility Contact Email Address: rcallery@calpine.com

Facility Primary Responsible Official

Complete if an "application responsible official" is identified in Section I. that is not the facility "primary responsible official."

1. Facility Contact Name: Robert Callery
2. Facility Contact Mailing Address... Organization/Firm: Calpine Operating Services Company, Inc. Street Address: 1651 Derby Avenue City: Tampa State: Florida Zip Code: 33823
3. Facility Contact Telephone Numbers: Telephone: (863) 551-4665 ext. Fax: (863) 537-4666
4. Facility Contact Email Address: rcallery@calpine.com

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. ☐ Small Business Stationary Source	☐ Unknown
2. ☐ Synthetic Non-Title V Source	
3. ☒ Title V Source	
4. ☒ Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)	
5. ☐ Synthetic Minor Source of Air Pollutants, Other than HAPs	
6. ☐ Major Source of Hazardous Air Pollutants (HAPs)	
7. ☐ Synthetic Minor Source of HAPs	
8. ☒ One or More Emissions Units Subject to NSPS (40 CFR Part 60)	
9. ☐ One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)	
10. ☐ One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63)	
11. ☐ Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))	
12. Facility Regulatory Classifications Comment: Combustion turbines are subject to 40 CFR Part 60, Subpart GG Duct burners are subject to 40 CFR Part 60, Subpart Da (OEC only) Note: Previously permitted emissions unit 002, (2) Fuel Oil Storage Tanks are no longer subject to 40 CFR Part 60, Subpart Kb and are therefore requested to be listed as "unregulated" in Appendix U-1.	

FACILITY INFORMATION

List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
NOX	A	Y
VOC	A	N
CO	A	N
PM10	A	N
SO2	A	N
NH3	B	N

B. EMISSIONS CAPS

Facility-Wide or Multi-Unit Emissions Caps

1. Pollutant Subject to Emissions Cap	2. Facility Wide Cap [Y or N]? (all units)	3. Emissions Unit ID No.s Under Cap (if not all units)	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap
NOX	N	001, 006	N/A	177 - EU001 115 – EU006	ESCPSD

7. Facility-Wide or Multi-Unit Emissions Cap Comment:

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)
   ☒ Attached, Document ID: Attachment A-1 ☐ 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)
   ☒ Attached, Document ID: Attachment A-2 ☐ 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)
   ☒ Attached, Document ID: Attachment A-3 ☐ Previously Submitted, Date:_____

Additional Requirements for Air Construction Permit Applications N/A

1. Area Map Showing Facility Location:
   ☐ Attached, Document ID:_____ ☐ Not Applicable (existing permitted facility)
2. Description of Proposed Construction, Modification, or Plantwide Applicability Limit (PAL):
   ☐ Attached, Document ID:_____
3. Rule Applicability Analysis:
   ☐ Attached, Document ID:_____
4. List of Exempt Emissions Units (Rule 62-210.300(3), F.A.C.):
   ☐ Attached, Document ID:_____ ☐ Not Applicable (no exempt units at facility)
5. Fugitive Emissions Identification:
   ☐ Attached, Document ID:_____ ☐ Not Applicable
6. Air Quality Analysis (Rule 62-212.400(7), F.A.C.):
   ☐ Attached, Document ID:_____ ☐ Not Applicable
7. Source Impact Analysis (Rule 62-212.400(5), F.A.C.):
   ☐ Attached, Document ID:_____ ☐ Not Applicable
8. Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.):
   ☐ Attached, Document ID:_____ ☐ Not Applicable
9. Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.):
   ☐ Attached, Document ID:_____ ☐ Not Applicable
10. Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.):
    ☐ Attached, Document ID:_____ ☐ Not Applicable

FACILITY INFORMATION

Additional Requirements for FESOP Applications N/A

1. List of Exempt Emissions Units (Rule 62-210.300(3)(a) or (b)1., F.A.C.):
   ☐ 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 A-4 ☐ Not Applicable (revision application)
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 A-5
   ☐ 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 A-6
   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 On site 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 A-7 ☐ Not Applicable

Additional Requirements Comment

III. EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Application - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application for air permit. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

Air Construction Permit or FESOP Application - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an "unregulated emissions unit" does not apply. If this is an application for air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application – Where this application is used to apply for both an air construction permit and a revised/renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. **The air construction permitting classification must be used to complete the Emissions Unit Information Section of this application for air permit.** A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air construction permitting and insignificant emissions units are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

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 (APP) with wet compression system

3. Emissions Unit Identification Number: 001

4. Emissions Unit Status Code:	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:	8. Acid Rain Unit?
A	N/A	N/A	49	☒ Yes ☐ No

9. Package Unit:
Manufacturer: Westinghouse Model Number: 501D5

10. Generator Nameplate Rating: 121.5 MW (CTG only)

11. Emissions Unit Comment:

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:
   Selective Catalytic Reduction
   Steam Injection

2. Control Device or Method Code(s): 065/028

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate:	
2. Maximum Production Rate:	
3. Maximum Heat Input Rate:	1,214 million Btu/hr (LHV) @ ISO conditions (N.G.-fired and wet compression system off) 1,364 million Btu/hr (LHV) @ ISO conditions (N.G.-fired and wet compression system in operation) 1,170 million Btu/hr (LHV) @ ISO conditions (F.O.-fired)
4. Maximum Incineration Rate:	pounds/hr tons/day
5. Requested Maximum Operating Schedule:	24 hours/day — 7 days/week 52 weeks/year — 8,760 hours/year

6. Operating Capacity/Schedule Comment:
Maximum heat input rate will vary with load and ambient conditions
N.G. = natural gas
F.O. = No. 2 distillate fuel oil

Unrestricted operation of a wet compression system is allowed during natural gas firing and at ambient air temperatures greater than 60 deg. Fahrenheit.

No. 2 distillate fuel oil combustion limited to 400 hours per year.

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-001	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: 160 feet	7. Exit Diameter: 18.0 feet
8. Exit Temperature: 196 - 216 °F	9. Actual Volumetric Flow Rate: 839,747 acfm	10. Water Vapor: Approx. 10 %
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: Exhaust gas data based on natural gas-firing at 100% load and 72 deg F ambient temperature.		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type): Natural gas		
2. Source Classification Code (SCC): 20100201	3. SCC Units: Million cubic feet burned	
4. Maximum Hourly Rate: 1.483	5. Maximum Annual Rate: 12,988	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 920 (LHV)
10. Segment Comment: Maximum hourly and annual rates based on wet compression system in operation.		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type): No. 2 Fuel Oil		
2. Source Classification Code (SCC): 20100101	3. SCC Units: Thousand Gallons Burned	
4. Maximum Hourly Rate: 8.93	5. Maximum Annual Rate: 3,573	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.05	8. Maximum % Ash:	9. Million Btu per SCC Unit: 131
10. Segment Comment: No. 2 Fuel Oil combustion limited to 400 hours per year.		

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
NOX	**065/028**		**EL**
VOC			**EL**
CO			**EL**
PM10			**EL**
SO2			**EL**

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: NOX	2. Total Percent Efficiency of Control: 75 %
3. Potential Emissions: 230.0 lb/hour 177.0 tons/year	4. Synthetically Limited? ☒ Yes ☐ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code: 0
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: ☐ 5 years ☐ 10 years
10. Calculation of Emissions:	
11. Potential, Fugitive, and Actual Emissions Comment: Hourly potential emission rate based on No. 2 fuel oil combustion. Annual potential emissions limited in order to meet requirements for netting out with EU 006 as outlined in permit 1050221-004-AC. No. 2 fuel oil combustion limited to 400 hr/yr.	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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: OTHER	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 15 ppmvd @ 15% O_2 (24-hour block average) 9 ppmvd @ 15% O_2 (12-month rolling average)	4. Equivalent Allowable Emissions: 78.6 lb/hour 177.0 tons/year
5. Method of Compliance: NOX CEMS	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions and equivalent allowable hourly emissions are based on natural gas firing only. Equivalent allowable annual emission rate is based on combined natural gas and distillate fuel oil firing.	

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: 42 ppmvd @ 15% O_2 (24-hour block average)	4. Equivalent Allowable Emissions: 230.0 lb/hour 46.0 tons/year
5. Method of Compliance: NOX CEMS	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions and equivalent allowable emissions are based on distillate fuel oil firing only. Distillate fuel oil firing is limited to 400 hours per year. Rule: Permit Nos. 1050221-009-AV; PSD-FL-185.	

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: VOC	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions: 10.0 lb/hour 27.1 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code: 0
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: ☐ 5 years ☐ 10 years
10. Calculation of Emissions:	
11. Potential, Fugitive, and Actual Emissions Comment: Potential hourly emissions based on distillate fuel oil combustion. Potential annual emissions based on 8,360 hrs/yr natural gas combustion and 400 hrs/yr distillate fuel oil combustion.	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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: N/A	4. Equivalent Allowable Emissions: 6.0 lb/hour 26.3 tons/year
5. Method of Compliance: Good combustion practices	
6. Allowable Emissions Comment (Description of Operating Method): Equivalent allowable emissions are based on natural gas firing only. Rule: Permit Nos. 1050221-009-AV; PSD-FL-185.	

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: N/A	4. Equivalent Allowable Emissions: 10.0 lb/hour 2.0 tons/year
5. Method of Compliance: Good combustion practices	
6. Allowable Emissions Comment (Description of Operating Method): Equivalent allowable emissions are based on distillate fuel oil firing only. Distillate fuel oil firing is limited to 400 hours per year. Rule: Permit Nos. 1050221-009-AV; PSD-FL-185.	

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: CO	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions: 73.0 lb/hour 196.4 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code: 0
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: ☐ 5 years ☐ 10 years
10. Calculation of Emissions:	
11. Potential, Fugitive, and Actual Emissions Comment: Potential hourly emissions based on distillate fuel oil combustion. Potential annual emissions based on 8,360 hrs/yr natural gas combustion and 400 hrs/yr distillate fuel oil combustion.	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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: 21 ppmvd @ minimum load 15 ppmvd @ base load	4. Equivalent Allowable Emissions: 43.5 lb/hour 190.5 tons/year
5. Method of Compliance: Good combustion practices	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions are based on natural gas firing only. Rule: Permit Nos. 1050221-009-AV; PSD-FL-185.	

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: 25 ppmvd	4. Equivalent Allowable Emissions: 73.0 lb/hour 14.6 tons/year
5. Method of Compliance: Good combustion practices	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions are based on distillate fuel oil firing only. Distillate fuel oil firing is limited to 400 hours per year. Rule: Permit Nos. 1050221-009-AV; PSD-FL-185.	

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM10	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions: 36.8 lb/hour 51.3 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code: 0
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: ☐ 5 years ☐ 10 years
10. Calculation of Emissions:	
11. Potential, Fugitive, and Actual Emissions Comment: Potential hourly emissions based on distillate fuel oil combustion. Potential annual emissions based on 8,360 hr/yr (natural gas combustion) and 400 hr/yr (fuel oil combustion).	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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: 0.0134 lb/MMBtu	4. Equivalent Allowable Emissions: 10.5 lb/hour 46.0 tons/year
5. Method of Compliance: Good combustion practices	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions are based on natural gas firing only. Rule: Permit Nos. 1050221-009-AV; PSD-FL-185.	

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: 0.0472 lb/MMBtu	4. Equivalent Allowable Emissions: 36.8 lb/hour 7.4 tons/year
5. Method of Compliance: Good combustion practices	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions are based on distillate fuel oil firing only. Distillate fuel oil firing is limited to 400 hours per year. Rule: Permit Nos. 1050221-009-AV; PSD-FL-185.	

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: SO2	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions: 70.0 lb/hour 181.2 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code: 0
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: ☐ 5 years ☐ 10 years
10. Calculation of Emissions:	
11. Potential, Fugitive, and Actual Emissions Comment: Potential hourly emissions based on distillate fuel oil combustion. Potential annual emissions based on 8,360 hrs/yr natural gas combustion and 400 hrs/yr distillate fuel oil combustion.	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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: N/A	4. Equivalent Allowable Emissions: 40.0 lb/hour 175.2 tons/year
5. Method of Compliance: Good combustion practices and exclusive use of natural gas	
6. Allowable Emissions Comment (Description of Operating Method): Equivalent allowable emissions are based on natural gas firing only. Rule: Permit Nos. 1050221-009-AV; PSD-FL-185.	

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: 0.05% S (max.) content by weight of fuel oil	4. Equivalent Allowable Emissions: 70.0 lb/hour 14.0 tons/year
5. Method of Compliance: Good combustion practices and exclusive use of 0.05% S (max.) content by weight distillate fuel oil	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions are based on No. 2 distillate fuel oil firing only. Rule: Permit Nos. 1050221-009-AV; PSD-FL-185.	

G. VISIBLE EMISSIONS INFORMATION

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

Visible Emissions Limitation: Visible Emissions Limitation 1_ of 3__

1. Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity: ☒ Rule ☐ 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: 10% opacity limit at full load (i.e. 156 MW) Rule: Permit Nos. 1050221-009-AV; PSD-FL-185.	

Visible Emissions Limitation: Visible Emissions Limitation 2__ of 3_

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: ☒ Rule ☐ Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA Method 9	
5. Visible Emissions Comment: 20% opacity limit at any load other than full load. Rule: Permit Nos. 1050221-009-AV; PSD-FL-185.	

G. VISIBLE EMISSIONS INFORMATION

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

Visible Emissions Limitation: Visible Emissions Limitation 3_ of 3___

1. Visible Emissions Subtype: *	2. Basis for Allowable Opacity: ☒ Rule ☐ Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Recordkeeping	
5. Visible Emissions Comment: * Excess emission during periods of startup, shutdown or malfunction are permitted provided that best operational practices to minimize emissions are adhered to and the duration of the excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the department for longer duration Rule: 62-210.700(1), F.A.C.; Permit Nos. 1050221-009-AV; PSD-FL-185.	

Visible Emissions Limitation: Visible Emissions Limitation ___ of __

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: ☐ Rule ☐ Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

H. CONTINUOUS MONITOR INFORMATION

Complete 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): NOX
3. CMS Requirement:	☒ Rule ☐ Other
4. Monitor Information... Manufacturer: Rosemount Analytical Model Number: CLD	Serial Number: 600661477646
5. Installation Date: August 15, 2006	6. Performance Specification Test Date: August 31, 2006
7. Continuous Monitor Comment: Rule: Permit Nos. 1050221-009-AV; PSD-FL-185.	

Continuous Monitoring System: Continuous Monitor 2__ of 2__

1. Parameter Code: EM	2. Pollutant(s): O2
3. CMS Requirement:	☒ Rule ☐ Other
4. Monitor Information... Manufacturer: Rosemount Analytical Model Number: MLT	Serial Number: 300561477587
5. Installation Date: August 15, 2006	6. Performance Specification Test Date: August 31, 2006
7. Continuous Monitor Comment: Rule: Permit Nos. 1050221-009-AV; PSD-FL-185.	

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)
   ☒ Attached, Document ID: Attachment A-2 ☐ 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)
   ☒ Attached, Document ID: Attachment A-8 ☐ Previously Submitted, Date _____

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)
   ☒ Attached, Document ID: Attacment A-9 ☐ Previously Submitted, Date _____

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)
   ☒ Attached, Document ID: Attachment A-10 ☐ Previously Submitted, Date _____
   ☐ 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)
   ☐ Attached, Document ID: _____ ☐ Previously Submitted, Date _____
   ☒ Not Applicable

6. Compliance Demonstration Reports/Records

☐ Attached, Document ID: _____

Test Date(s)/Pollutant(s) Tested: _____

_____

☒ Previously Submitted, Date: June 26, 2007

Test Date(s)/Pollutant(s) Tested: _____

_____

☐ To be Submitted, Date (if known):_____

Test Date(s)/Pollutant(s) Tested: _____

_____

☐ 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

☐ Attached, Document ID: _____ ☒ Not Applicable

EMISSIONS UNIT INFORMATION
Section [1] of [5]

Additional Requirements for Air Construction Permit Applications N/A

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))
   ☐ Attached, Document ID: _____ ☐ Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and Rule 62-212.500(4)(f), F.A.C.)
   ☐ Attached, Document ID: _____ ☐ Not Applicable
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only)
   ☐ Attached, Document ID: _____ ☐ Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements
   ☒ Attached, Document ID: Attachment A-5
2. Compliance Assurance Monitoring
   ☐ Attached, Document ID: _____ ☒ Not Applicable
3. Alternative Methods of Operation
   ☐ Attached, Document ID: _____ ☒ Not Applicable
4. Alternative Modes of Operation (Emissions Trading)
   ☐ Attached, Document ID: _____ ☒ Not Applicable
5. Acid Rain Part Application
   ☐ Certificate of Representation (EPA Form No. 7610-1)
   ☐ Copy Attached, Document ID:
   ☒ Acid Rain Part (Form No. 62-210.900(1)(a))
   ☒ Attached, Document ID: Attachment A-11 ☐ Previously Submitted, Date: _____
   ☐ Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
   ☐ Attached, Document ID: _____ ☐ Previously Submitted, Date: _____
   ☐ New Unit Exemption (Form No. 62-210.900(1)(a)2.)
   ☐ Attached, Document ID: _____ ☐ Previously Submitted, Date: _____
   ☐ Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
   ☐ Attached, Document ID: _____ ☐ Previously Submitted, Date: _____
   ☐ Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
   ☐ Attached, Document ID: _____ ☐ Previously Submitted, Date: _____
   ☐ Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
   ☐ Attached, Document ID: _____ ☐ Previously Submitted, Date: _____
   ☐ Not Applicable

Additional Requirements Comment

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: Simple Cycle Combustion Turbine (APEC)

3. Emissions Unit Identification Number: 006

4. Emissions Unit Status Code:	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:	8. Acid Rain Unit?
A	N/A	N/A	49	☒ Yes ☐ No

9. Package Unit:
Manufacturer: Westinghouse Model Number: 501D5A

10. Generator Nameplate Rating: 130.0 MW

11. Emissions Unit Comment:

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:
   Steam Injection

2. Control Device or Method Code(s): 028

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 2,227,400 MMBtu of natural gas per consecutive 12-month period
2. Maximum Production Rate:
3. Maximum Heat Input Rate: 1,776 million Btu/hr (HHV) @ 100% base load and 32 deg F compressor inlet temperature CIT) (Natural Gas-fired); 1,546 million Btu/hr (HHV) @ 100% base load and 32 deg F CIT (No. 2 distillate fuel oil-fired)
4. Maximum Incineration Rate: pounds/hr tons/day
5. Requested Maximum Operating Schedule: 24 hours/day 7 days/week 52 weeks/year 8,760 hours/year
6. Operating Capacity/Schedule Comment: Maximum heat input rate will vary with load and ambient conditions No. 2 distillate fuel oil combustion limited to 400 hours per consecutive 12-month period.

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-006	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: 50 feet	7. Exit Diameter: 22.0 feet
8. Exit Temperature: 994 °F	9. Actual Volumetric Flow Rate: 1,887,143 acfm	10. Water Vapor: Approx. 10 %
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: Exhaust gas data based on natural gas-firing at 100% load and ISO conditions. Exit temperature and actual volumetric flow rate for distillate fuel oil-firing is 1,006 °F and 1,897,143 acfm, respectively.		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type): Natural gas		
2. Source Classification Code (SCC): 20100201	3. SCC Units: Million cubic feet burned	
4. Maximum Hourly Rate: 1.776	5. Maximum Annual Rate: 2,227.4	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 1000 (HHV)
10. Segment Comment:		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type): No. 2 Fuel Oil		
2. Source Classification Code (SCC): 20100101	3. SCC Units: Thousand Gallons Burned	
4. Maximum Hourly Rate: 11.8	5. Maximum Annual Rate: 4,720	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.05	8. Maximum % Ash:	9. Million Btu per SCC Unit: 131
10. Segment Comment: No. 2 Fuel Oil combustion limited to 400 hours per year.		

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
NOX	**028**		**EL**
VOC			**EL**
CO			**EL**
PM10			**EL**
SO2			**EL**

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: NOX	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions: N/A lb/hour 115.0 tons/year	4. Synthetically Limited? ☒ Yes ☐ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code: 0
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: ☐ 5 years ☐ 10 years
10. Calculation of Emissions:	
11. Potential, Fugitive, and Actual Emissions Comment: Annual potential emissions are combined total for both natural gas-firing and distillate fuel oil firing. Natural gas combustion limited to 2,227,400 MMBtu/yr. No. 2 fuel oil combustion limited to 400 hr/yr.	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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: OTHER	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 25.0 ppmvd @ 15% O_2 (24-hour block average)	4. Equivalent Allowable Emissions: N/A lb/hour 115.0 tons/year
5. Method of Compliance: NOX CEMS	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions are based on natural gas firing only. Equivalent allowable annual emission rate is based on combined natural gas and distillate fuel oil firing. Rule: Permit Nos. 1050221-004-AC, 1050221-010-AC.	

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: 42.0 ppmvd @ 15% O_2 (24-hour block average)	4. Equivalent Allowable Emissions: N/A lb/hour 115.0 tons/year
5. Method of Compliance: NOX CEMS	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions are based on distillate fuel oil firing only. Distillate fuel oil firing is limited to 400 hours per year. Equivalent allowable annual emission rate of 115.0 tons/yr is based on combined natural gas and distillate fuel oil firing. Rule: Permit Nos. 1050221-004-AC, 1050221-010-AC.	

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: VOC	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions: N/A lb/hour N/A tons/year	4. Synthetically Limited? ☒ Yes ☐ 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: ☐ 5 years ☐ 10 years
10. Calculation of Emissions:	

11. Potential, Fugitive, and Actual Emissions Comment:

Annual potential emissions are combined total for both natural gas-firing and distillate fuel oil firing. Natural gas combustion limited to 2,227,400 MMBtu/yr. No. 2 fuel oil combustion limited to 400 hr/yr.

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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: 4.0 ppmvd @ 15% O_2	4. Equivalent Allowable Emissions: N/A lb/hour N/A tons/year
5. Method of Compliance: Good combustion practices	
6. Allowable Emissions Comment (Description of Operating Method): Natural gas firing only. Rule: Permit Nos. 1050221-009-AV, 1050221-004-AC.	

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: 5.0 ppmvd @ 15% O_2	4. Equivalent Allowable Emissions: N/A lb/hour N/A tons/year
5. Method of Compliance: Good combustion practices	
6. Allowable Emissions Comment (Description of Operating Method): Distillate fuel oil firing only. Rule: Permit Nos. 1050221-009-AV, 1050221-004-AC, 1050221-010-AC.	

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: CO	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions: N/A lb/hour 99.0 tons/year	4. Synthetically Limited? ☒ Yes ☐ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code: 0
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: ☐ 5 years ☐ 10 years
10. Calculation of Emissions:	
11. Potential, Fugitive, and Actual Emissions Comment: Potential annual emissions are combined total for both natural gas-firing and distillate fuel oil firing based on 12-month rolling average. Natural gas combustion limited to 2,227,400 MMBtu/yr. No. 2 fuel oil combustion limited to 400 hr/yr.	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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 ppmvd @ base load	4. Equivalent Allowable Emissions: N/A lb/hour 99.0 tons/year
5. Method of Compliance: Continuous emissions monitoring	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions are based on burning all fuels. Equivalent allowable annual emission rate is based on combined total of both natural gas and distillate fuel oil combustion. Rule: Permit Nos. 1050221-004-AC, 1050221-010-AC.	

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.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM10	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions: 58.5 lb/hour 13.7 tons/year	4. Synthetically Limited? ☒ Yes ☐ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code: 0
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: ☐ 5 years ☐ 10 years

10. Calculation of Emissions:
Potential annual emissions based on 2,227,400 MMBtu/yr (1,400 hr/yr) natural gas combustion and 400 hrs/yr distillate fuel oil combustion

11. Potential, Fugitive, and Actual Emissions Comment:
Potential hourly emission rate is based on distillate fuel oil combustion. Potential annual emissions are combined total for both natural gas-firing and distillate fuel oil firing. Natural gas combustion limited to 2,227,400 MMBtu/yr. No. 2 fuel oil combustion limited to 400 hr/yr.

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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: N/A	4. Equivalent Allowable Emissions: 2.9 lb/hour 4.0 tons/year
5. Method of Compliance: Good combustion practices	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions are based on natural gas firing only. Rule: Permit No. 1050221-004-AC.	

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: N/A	4. Equivalent Allowable Emissions: 58.5 lb/hour N/A tons/year
5. Method of Compliance: Good combustion practices	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions are based on distillate fuel oil firing only. Distillate fuel oil firing is limited to 400 hours per year. Rule: Permit No. 1050221-004-AC.	

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: SO2	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions: 74.9 lb/hour N/A tons/year	4. Synthetically Limited? ☒ Yes ☐ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code: 0
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: ☐ 5 years ☐ 10 years
10. Calculation of Emissions:	
11. Potential, Fugitive, and Actual Emissions Comment: Potential hourly emissions are based on distillate fuel oil-firing.	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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 grains/ 100 scf natural gas (monthly average)	4. Equivalent Allowable Emissions: N/A lb/hour N/A tons/year
5. Method of Compliance: Natural gas supplier records.	
6. Allowable Emissions Comment (Description of Operating Method): Rule: Permit No. 1050221-004-AC.	

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: 0.05% S (max.) content by weight of fuel oil	4. Equivalent Allowable Emissions: 74.9 lb/hour 14.98 tons/year
5. Method of Compliance: Distillate fuel oil supplier records.	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions are based on No. 2 distillate fuel oil firing only. Rule: Permit No. 1050221-004-AC.	

G. VISIBLE EMISSIONS INFORMATION

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

Visible Emissions Limitation: Visible Emissions Limitation 1_ of 2___

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: ☒ Rule ☐ Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA Method 9	
5. Visible Emissions Comment: Rule: Permit Nos. 1050221-009-AV; 1050221-004-AC.	

Visible Emissions Limitation: Visible Emissions Limitation 2__ of 2_

1. Visible Emissions Subtype: *	2. Basis for Allowable Opacity: ☒ Rule ☐ Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Recordkeeping	
6. 5. Visible Emissions Comment: * Excess emission during periods of startup, shutdown or malfunction are permitted provided that best operational practices to minimize emissions are adhered to and the duration of the excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. Rule: 62-210.700(1), F.A.C.; Permit Nos. 1050221-009-AV; 1050221-004-AC.	

H. CONTINUOUS MONITOR INFORMATION

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

Continuous Monitoring System: Continuous Monitor 1__ of 3__

1. Parameter Code: EM	2. Pollutant(s): NOX
3. CMS Requirement:	☒ Rule ☐ Other
4. Monitor Information... Manufacturer: Rosemount Analytical Model Number: CLD	Serial Number: U10006368
5. Installation Date: May 2002	6. Performance Specification Test Date: June 13, 2002
7. Continuous Monitor Comment: Rule: Permit Nos. 1050221-009-AV; 1050221-004-AC.	

Continuous Monitoring System: Continuous Monitor 2__ of 3__

1. Parameter Code: EM	2. Pollutant(s): O2
3. CMS Requirement:	☒ Rule ☐ Other
4. Monitor Information... Manufacturer: Rosemount Analytical Model Number: MLT	Serial Number: 30121567354
5. Installation Date: May 2002	6. Performance Specification Test Date: June 13, 2002
7. Continuous Monitor Comment: Rule: Permit Nos. 1050221-009-AV; 1050221-004-AC.	

H. CONTINUOUS MONITOR INFORMATION

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

Continuous Monitoring System: Continuous Monitor 3__ of 3__

1. Parameter Code: EM	2. Pollutant(s): CO
3. CMS Requirement:	☒ Rule ☐ Other
4. Monitor Information... Manufacturer: Rosemount Analytical Model Number: MLT	Serial Number: 30121567354
5. Installation Date: May 2002	6. Performance Specification Test Date: June 13, 2002
7. Continuous Monitor Comment: Rule: Permit Nos. 1050221-009-AV; 1050221-004-AC.	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	☐ Rule ☐ Other
4. Monitor Information... Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

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)
☒ Attached, Document ID: Attachment A-2 ☐ 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)
☒ Attached, Document ID: Attachment A-8 ☐ Previously Submitted, Date _____

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)
☒ Attached, Document ID: Attachment A-9 ☐ Previously Submitted, Date _____

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)
☒ Attached, Document ID: Attachment A-10 ☐ Previously Submitted, Date _____
☐ 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)
☐ Attached, Document ID: _____ ☐ Previously Submitted, Date _____
☒ Not Applicable

6. Compliance Demonstration Reports/Records

☐ Attached, Document ID: _____

Test Date(s)/Pollutant(s) Tested: _____

_____

☒ Previously Submitted, Date: June 26, 2007

Test Date(s)/Pollutant(s) Tested: _____

_____

☐ To be Submitted, Date (if known): _____

Test Date(s)/Pollutant(s) Tested: _____

_____

☐ 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

☐ Attached, Document ID: _____ ☒ Not Applicable

EMISSIONS UNIT INFORMATION
Section [2] of [5]

Additional Requirements for Air Construction Permit Applications N/A

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))
   ☐ Attached, Document ID: _____ ☐ Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and Rule 62-212.500(4)(f), F.A.C.)
   ☐ Attached, Document ID: _____ ☐ Not Applicable
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only)
   ☐ Attached, Document ID: _____ ☐ Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements
   ☒ Attached, Document ID: Attachment A-5 _____
2. Compliance Assurance Monitoring
   ☐ Attached, Document ID: _____ ☒ Not Applicable
3. Alternative Methods of Operation
   ☐ Attached, Document ID: _____ ☒ Not Applicable
4. Alternative Modes of Operation (Emissions Trading)
   ☐ Attached, Document ID: _____ ☒ Not Applicable
5. Acid Rain Part Application
   ☐ Certificate of Representation (EPA Form No. 7610-1)
   ☐ Copy Attached, Document ID:
   ☒ Acid Rain Part (Form No. 62-210.900(1)(a))
   ☒ Attached, Document ID: Attachment A-11 ☐ Previously Submitted, Date:_____
   ☐ Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
   ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☐ New Unit Exemption (Form No. 62-210.900(1)(a)2.)
   ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☐ Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
   ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☐ Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
   ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☐ Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
   ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☐ Not Applicable

Additional Requirements Comment

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 System consisting of one nominal 170 MW combustion turbine (CT) with Heat Recovery Steam Generator (HRSG) equipped with 250 MMBtu/hr duct burner (DB) – (OEC)

3. Emissions Unit Identification Number: EU 007 – nominal 170 Megawatt Gas Combustion Turbine-Electrical Generator; EU 009 – HRSG with Supplementary DB

4. Emissions Unit Status Code:	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:	8. Acid Rain Unit?
A	N/A	N/A	49	☒ Yes ☐ No

9. Package Unit:
Manufacturer: Siemens Westinghouse Model Number: 501FD

10. Generator Nameplate Rating: 192.1 MW (CT)

11. Emissions Unit Comment:

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:
   Dry Low NOx (DLN) Combustion - CT
   Low NOx Burners – HRSG DB
   Selective Catalytic Reduction (SCR) – CT/HRSG DB

2. Control Device or Method Code(s): 025 (DLN)/205 (LNB)/139 (SCR)

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate:	
2. Maximum Production Rate:	
3. Maximum Heat Input Rate: 1,875 million Btu/hr (LHV) @ ISO conditions (CT) 250 million Btu/hr (LHV) (DB)	
4. Maximum Incineration Rate: pounds/hr tons/day	
5. Requested Maximum Operating Schedule:	
24 hours/day	7 days/week
52 weeks/year	8,760 hours/year
6. Operating Capacity/Schedule Comment: Maximum CT heat input rate based on natural gas combustion and without power augmentation (PAG). CT heat input rate will vary with load and ambient conditions.	

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: CC-1	2. Emission Point Type Code: 2	
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: 142 feet	7. Exit Diameter: 18.5 feet
8. Exit Temperature: 200 °F	9. Actual Volumetric Flow Rate: 1,021,100 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: Exhaust gas data based on natural gas-firing at 100% load and ISO conditions. Actual volumetric flow rate based on 100% load, 59 °F, with no DB firing or PAG.		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type): Pipeline quality natural gas (combustion turbine only)		
2. Source Classification Code (SCC): 20100201	3. SCC Units: Million cubic feet burned	
4. Maximum Hourly Rate: 2.04	5. Maximum Annual Rate: 17,853	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 920 (LHV)
10. Segment Comment: Maximum hourly rate based on 100% load and 59 °F. Maximum annual rate based on 100% load, 59 °F and 8,760 hours per year.		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type): Pipeline quality natural gas (HRSG duct burner only)		
2. Source Classification Code (SCC): 10100601	3. SCC Units: Million cubic feet burned	
4. Maximum Hourly Rate: 0.272	5. Maximum Annual Rate: 2,383	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 920 (LHV)
10. Segment Comment: Maximum Hourly Rate = (250 MMBtu/hr) / (920 MMBtu/MMcf) = 0.272 MMcf/hr Maximum Annual Rate = (0.272 MMcf/hr) x (8,760 hr/yr) = 2,383 MMcf/yr		

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
NOX	**025/205**	**139**	**EL**
VOC			**EL**
CO			**EL**
PM10			**EL**
SO2			**EL**
NH3			**EL**

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: NOX	2. Total Percent Efficiency of Control: 75%
3. Potential Emissions: 27.5 lb/hour 120.5 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code: 0
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: ☐ 5 years ☐ 10 years

10. Calculation of Emissions:

Potential emission rate is based on operating in power augmentation mode at 95 °F with or without HRSG DB operation.

11. Potential, Fugitive, and Actual Emissions Comment:

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions Allowable Emissions 1_ of 3__

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 3.5 ppmvd @ 15% O_2 (24-hour block average)	4. Equivalent Allowable Emissions: 27.5 lb/hour 120.5 tons/year
5. Method of Compliance: NOX CEMS	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emission rate applies with or without power augmentation and/or HRSG DBs. Rule: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

Allowable Emissions Allowable Emissions 2_ of 3__

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: N/A	4. Equivalent Allowable Emissions: 27.5 lb/hour N/A tons/year
5. Method of Compliance: EPA Reference Method 7E or 20	
6. Allowable Emissions Comment (Description of Operating Method): Equivalent allowable hourly emissions based on 95 °F with DB and power augmentation. Rule: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions Allowable Emissions 3_ of 3__

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 0.1 MMBtu/hr (DB - EU 009 only)	4. Equivalent Allowable Emissions: N/A lb/hour N/A tons/year
5. Method of Compliance: EPA Reference Method 7E	
6. Allowable Emissions Comment (Description of Operating Method): Rule: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

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.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: VOC	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions: 5.8 (w/o DB or PAG); 12.4 (w/ DB or PAG) lb/hour 54.3 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code: 0
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: ☐ 5 years ☐ 10 years

10. Calculation of Emissions:
Potential annual emissions = (12.4 lb/hr) x (8,760 hr/yr) / 2,000 lb/ton = 54.3 tons/yr

11. Potential, Fugitive, and Actual Emissions Comment:
Potential annual emissions based on operating with DB and PAG on.

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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: 2.3 ppmvd @ 15% O_2	4. Equivalent Allowable Emissions: 5.8 lb/hour 25.4 tons/year
5. Method of Compliance: Initial and renewal stack test in accordance with EPA Method 18, 25, or 25A and compliance with CO limit.	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions based on operation not including DB firing, PAG, or operation below 30%.	

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: 4.6 ppmvd @ 15% O_2	4. Equivalent Allowable Emissions: 12.4 lb/hour 54.3 tons/year
5. Method of Compliance: Initial and renewal stack test in accordance with EPA Method 18, 25, or 25A and compliance with CO limit.	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions based on operation including DB firing, PAG, and operation below 30%. Rule: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: CO	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions: N/A lb/hour N/A tons/year	4. Synthetically Limited? ☐ Yes ☒ 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: ☐ 5 years ☐ 10 years
10. Calculation of Emissions:	
11. Potential, Fugitive, and Actual Emissions Comment:	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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: 10 ppmvd @ 15% O_2 (24-hour block average)	4. Equivalent Allowable Emissions: N/A lb/hour N/A tons/year
5. Method of Compliance: Continuous emissions monitoring	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions based on operation not including DB firing, PAG, or operation below 30% for any one valid hour per day. Rule: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

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: 17 ppmvd @ 15% O_2 (24-hour block average)	4. Equivalent Allowable Emissions: N/A lb/hour N/A tons/year
5. Method of Compliance: Continuous emissions monitoring	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions based on operating in power augmentation mode including DB firing, PG, and operation below 30% for any one valid hour per day. Rule: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM10	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions: 24.1 lb/hour 105.6 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code: 0
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: ☐ 5 years ☐ 10 years

10. Calculation of Emissions:

Potential hourly emissions based on 100% load with duct burner and power augmentation.

Potential annual emissions based on 8,760 hr/yr.

11. Potential, Fugitive, and Actual Emissions Comment:

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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: N/A	4. Equivalent Allowable Emissions: 24.1 lb/hour 105.6 tons/year
5. Method of Compliance: Exclusive use of natural gas	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions are based on operating in power augmentation mode with DB firing. Rule: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

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: 10% opacity	4. Equivalent Allowable Emissions: N/A lb/hour N/A tons/year
5. Method of Compliance: Annual compliance test in accordance with EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Rule: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: SO2	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions: N/A lb/hour N/A tons/year	4. Synthetically Limited? ☐ Yes ☒ 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: ☐ 5 years ☐ 10 years
10. Calculation of Emissions:	
11. Potential, Fugitive, and Actual Emissions Comment:	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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: 2 grains/ 100 scf	4. Equivalent Allowable Emissions: N/A lb/hour N/A tons/year
5. Method of Compliance: Custom Fuel Monitoring	
6. Allowable Emissions Comment (Description of Operating Method): Rule: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

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.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: NH3	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions: N/A lb/hour N/A tons/year	4. Synthetically Limited? ☐ Yes ☒ 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: ☐ 5 years ☐ 10 years
10. Calculation of Emissions:	
11. Potential, Fugitive, and Actual Emissions Comment:	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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: 9.0 ppmvd @ 15% O_2	4. Equivalent Allowable Emissions: N/A lb/hour N/A tons/year
5. Method of Compliance: Annual stack test in accordance with EPA reference Method 26A, continuous monitoring of NOx concentration at SCR inlet and outlet and ammonia flow rate	
6. Allowable Emissions Comment (Description of Operating Method): Rule: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

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):	

G. VISIBLE EMISSIONS INFORMATION

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

Visible Emissions Limitation: Visible Emissions Limitation 1_ of 2___

1. Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity: ☒ Rule ☐ 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: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

Visible Emissions Limitation: Visible Emissions Limitation 2__ of 2_

1. Visible Emissions Subtype: *	2. Basis for Allowable Opacity: ☒ Rule ☐ Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Recordkeeping	
7. 5. Visible Emissions Comment: * Excess emission during periods of startup, shutdown or malfunction are permitted provided that best operational practices to minimize emissions are adhered to and the duration of the excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. Rule: 62-210.700(1), F.A.C.; Permit Nos. 1050221-009-AV; 1050334-001-AC.	

H. CONTINUOUS MONITOR INFORMATION

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

Continuous Monitoring System: Continuous Monitor 1__ of 4__

1. Parameter Code: EM	2. Pollutant(s): CO
3. CMS Requirement:	☒ Rule ☐ Other
4. Monitor Information... Manufacturer: Rosemount Analytical Model Number: MLT	Serial Number: 30082674393
5. Installation Date: March 21, 2004	6. Performance Specification Test Date: June 10, 2004
7. Continuous Monitor Comment: Rule: Permit Nos. 1050221-009-AV; 1050334-001-AC.	

Continuous Monitoring System: Continuous Monitor 2__ of 4__

1. Parameter Code: EM	2. Pollutant(s): O2
3. CMS Requirement:	☒ Rule ☐ Other
4. Monitor Information... Manufacturer: Rosemount Analytical Model Number: MLT	Serial Number: 30082674393
5. Installation Date: March 21, 2004	6. Performance Specification Test Date: June 10, 2004
7. Continuous Monitor Comment: Rule: Permit Nos. 1050221-009-AV; 1050334-001-AC.	

H. CONTINUOUS MONITOR INFORMATION

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

Continuous Monitoring System: Continuous Monitor 3__ of 4__

1. Parameter Code: EM	2. Pollutant(s): NOX (outlet)
3. CMS Requirement:	☒ Rule ☐ Other
4. Monitor Information... Manufacturer: Rosemount Analytical Model Number: NGA-CLD	Serial Number: U1006517
5. Installation Date: March 21, 2004	6. Performance Specification Test Date: June 10, 2004
7. Continuous Monitor Comment: Rule: Permit Nos. 1050221-009-AV; 1050334-001-AC.	

Continuous Monitoring System: Continuous Monitor 4__ of 4__

1. Parameter Code: EM	2. Pollutant(s): NOX (inlet)
3. CMS Requirement:	☒ Rule ☐ Other
4. Monitor Information... Manufacturer: Rosemount Analytical Model Number: NGA-CLD	Serial Number: U10006486
5. Installation Date: March 21, 2004	6. Performance Specification Test Date: May 6, 2004
7. Continuous Monitor Comment: Rule: Permit Nos. 1050221-009-AV; 1050334-001-AC.	

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)
☒ Attached, Document ID: Attachment A-2 ☐ 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)
☒ Attached, Document ID: Attachment A-8 ☐ Previously Submitted, Date _____

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)
☒ Attached, Document ID: Attachment A-9 ☐ Previously Submitted, Date _____

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)
☒ Attached, Document ID: Attachment A-10 ☐ Previously Submitted, Date _____
☐ 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)
☐ Attached, Document ID: _____ ☐ Previously Submitted, Date _____
☒ Not Applicable

6. Compliance Demonstration Reports/Records

☐ Attached, Document ID: _____

Test Date(s)/Pollutant(s) Tested: _____

_____

☒ Previously Submitted, Date: June 26, 2007

Test Date(s)/Pollutant(s) Tested: _____

_____

☐ To be Submitted, Date (if known): _____

Test Date(s)/Pollutant(s) Tested: _____

_____

☐ 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

☐ Attached, Document ID: _____ ☒ Not Applicable

EMISSIONS UNIT INFORMATION
Section [3] of [5]

Additional Requirements for Air Construction Permit Applications N/A

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))
   ☐ Attached, Document ID: _____ ☐ Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and Rule 62-212.500(4)(f), F.A.C.)
   ☐ Attached, Document ID: _____ ☐ Not Applicable
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only)
   ☐ Attached, Document ID: _____ ☐ Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements
   ☒ Attached, Document ID: Attachment A-5_____
2. Compliance Assurance Monitoring
   ☐ Attached, Document ID: _____ ☒ Not Applicable
3. Alternative Methods of Operation
   ☐ Attached, Document ID: _____ ☒ Not Applicable
4. Alternative Modes of Operation (Emissions Trading)
   ☐ Attached, Document ID: _____ ☒ Not Applicable
5. Acid Rain Part Application
   ☐ Certificate of Representation (EPA Form No. 7610-1)
      ☐ Copy Attached, Document ID:
   ☒ Acid Rain Part (Form No. 62-210.900(1)(a))
      ☒ Attached, Document ID: Attachment A-12 ☐ Previously Submitted, Date:_____
   ☐ Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
      ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☐ New Unit Exemption (Form No. 62-210.900(1)(a)2.)
      ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☐ Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
      ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☐ Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
      ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☐ Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
      ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☐ Not Applicable

Additional Requirements Comment

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 System consisting of one nominal 170 MW combustion turbine (CT) with Heat Recovery Steam Generator (HRSG) equipped with 250 MMBtu/hr duct burner (DB) – (OEC)

3. Emissions Unit Identification Number: EU 008 – nominal 170 Megawatt Gas Combustion Turbine-Electrical Generator; EU 010 – HRSG with Supplementary DB

4. Emissions Unit Status Code:	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:	8. Acid Rain Unit?
A	N/A	N/A	49	☒ Yes ☐ No

9. Package Unit:
Manufacturer: Siemens Westinghouse Model Number: 501FD

10. Generator Nameplate Rating: 192.1 MW (CT)

11. Emissions Unit Comment:

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:
   Dry Low NOx (DLN) Combustion - CT
   Low NOx Burners – HRSG DB
   Selective Catalytic Reduction (SCR) – CT/HRSG DB

2. Control Device or Method Code(s): 025 (DLN)/205 (LNB)/139 (SCR)

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate:	
2. Maximum Production Rate:	
3. Maximum Heat Input Rate: 1,875 million Btu/hr (LHV) @ ISO conditions (CT) 250 million Btu/hr (LHV) (DB)	
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 CT heat input rate based on exclusive use of natural gas and without power augmentation. CT heat input rate will vary with load and ambient conditions.	

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: CC-2	2. Emission Point Type Code: 2	
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: 142 feet	7. Exit Diameter: 18.5 feet
8. Exit Temperature: 200 °F	9. Actual Volumetric Flow Rate: 1,021,100 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: Exhaust gas data based on natural gas-firing at 100% load and ISO conditions. Actual volumetric flow rate based on 100% load, 59 °F, with no DB firing or power augmentation.		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type): Pipeline quality natural gas (combustion turbine only)		
2. Source Classification Code (SCC): 20100201	3. SCC Units: Million cubic feet burned	
4. Maximum Hourly Rate: 2.04	5. Maximum Annual Rate: 17,853	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 920 (LHV)
10. Segment Comment: Maximum hourly rate based on 100% load and 59 °F. Maximum annual rate based on 100% load, 59 °F and 8,760 hours per year.		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type): Pipeline quality natural gas (HRSG duct burner only)		
2. Source Classification Code (SCC): 10100601	3. SCC Units: Million cubic feet burned	
4. Maximum Hourly Rate: 0.272	5. Maximum Annual Rate: 2,383	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 920 (LHV)
10. Segment Comment: Maximum Hourly Rate = (250 MMBtu/hr) / (920 MMBtu/MMcf) = 0.272 MMcf/hr Maximum Annual Rate = (0.272MMcf/hr) x (8,760 hr/yr) = 2,383 MMcf/yr		

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
NOX	**025/205**	**139**	**EL**
VOC			**EL**
CO			**EL**
PM10			**EL**
SO2			**EL**
NH3			**EL**

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: NOX	2. Total Percent Efficiency of Control: 75%
3. Potential Emissions: 27.5 lb/hour 120.5 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code: 0
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: ☐ 5 years ☐ 10 years

10. Calculation of Emissions:

Potential emission rate is based on operating in power augmentation mode at 95 °F with or without HRSG DB operation.

11. Potential, Fugitive, and Actual Emissions Comment:

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions Allowable Emissions 1_ of 3__

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 3.5 ppmvd @ 15% O_2 (24-hour block average)	4. Equivalent Allowable Emissions: 27.5 lb/hour 120.5 tons/year
5. Method of Compliance: NOX CEMS	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emission rate applies with or without power augmentation and/or HRSG DBs. Rule: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

Allowable Emissions Allowable Emissions 2_ of 3__

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: N/A	4. Equivalent Allowable Emissions: 27.5 lb/hour N/A tons/year
5. Method of Compliance: EPA Reference Method 7E or 20	
6. Allowable Emissions Comment (Description of Operating Method): Equivalent allowable hourly emissions based on 95 °F with DB and power augmentation. Rule: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions Allowable Emissions 3_ of 3__

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 0.1 MMBtu/hr (DB - EU 009 only)	4. Equivalent Allowable Emissions: N/A lb/hour N/A tons/year
5. Method of Compliance: EPA Reference Method 7E	
6. Allowable Emissions Comment (Description of Operating Method): Rule: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

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.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: VOC	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions: 5.8 (w/o DB); 12.4 (w/ DB) lb/hour 54.3 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code: 0
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: ☐ 5 years ☐ 10 years

10. Calculation of Emissions:
Potential annual emissions = (12.4 lb/hr) x (8,760 hr/yr) / 2,000 lb/ton = 54.3 tons/yr

11. Potential, Fugitive, and Actual Emissions Comment:
Potential emissions based on operating in power augmentation mode.

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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: 2.3 ppmvd @ 15% O_2	4. Equivalent Allowable Emissions: 5.8 lb/hour 25.4 tons/year
5. Method of Compliance: Initial and renewal stack test in accordance with EPA Method 18, 25, or 25A and compliance with CO limit.	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions based on operation not including DB firing, PAG, or operation below 30%. Rule: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

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: 4.6 ppmvd @ 15% O_2	4. Equivalent Allowable Emissions: 12.4 lb/hour 54.3 tons/year
5. Method of Compliance: Initial and renewal stack test in accordance with EPA Method 18, 25, or 25A and compliance with CO limit.	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions based on operation including DB firing, PAG, and operation below 30%. Rule: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: CO	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions: N/A lb/hour N/A tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code: 2
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: ☐ 5 years ☐ 10 years
10. Calculation of Emissions:	
11. Potential, Fugitive, and Actual Emissions Comment:	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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: 10 ppmvd @ 15% O_2 (24-hour block average)	4. Equivalent Allowable Emissions: N/A lb/hour N/A tons/year
5. Method of Compliance: Continuous emissions monitoring	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions based on operation not including DB firing, PAG, or operation below 30% for any one valid hour per day. Rule: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

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: 17 ppmvd @ 15% O_2 (24-hour block average)	4. Equivalent Allowable Emissions: N/A lb/hour N/A tons/year
5. Method of Compliance: Continuous emissions monitoring	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions based on operation including DB firing, PAG, and operation below 30% for any one valid hour per day. Rule: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM10	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions: 24.1 lb/hour 105.6 tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code: 0
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: ☐ 5 years ☐ 10 years

10. Calculation of Emissions:

Potential hourly emissions based on 100% load with duct burner and power augmentation.

Potential annual emissions based on 8,760 hr/yr.

11. Potential, Fugitive, and Actual Emissions Comment:

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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: N/A	4. Equivalent Allowable Emissions: 24.1 lb/hour 105.6 tons/year
5. Method of Compliance: Exclusive use of natural gas	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions are based on operating in power augmentation mode with DB firing. Rule: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

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: 10% opacity	4. Equivalent Allowable Emissions: N/A lb/hour N/A tons/year
5. Method of Compliance: Annual compliance test in accordance with EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Rule: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: SO2	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions: N/A lb/hour N/A tons/year	4. Synthetically Limited? ☐ Yes ☒ 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: ☐ 5 years ☐ 10 years
10. Calculation of Emissions:	
11. Potential, Fugitive, and Actual Emissions Comment:	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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: 2 grains/ 100 scf	4. Equivalent Allowable Emissions: N/A lb/hour N/A tons/year
5. Method of Compliance: Custom Fuel Monitoring	
6. Allowable Emissions Comment (Description of Operating Method): Rule: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

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.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: NH3	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions: N/A lb/hour N/A tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code: 0
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: ☐ 5 years ☐ 10 years
10. Calculation of Emissions:	
11. Potential, Fugitive, and Actual Emissions Comment:	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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: 9.0 ppmvd @ 15% O_2	4. Equivalent Allowable Emissions: N/A lb/hour N/A tons/year
5. Method of Compliance: Annual stack test in accordance with EPA reference Method 26A, continuous monitoring of NOx concentration at SCR inlet and outlet and ammonia flow rate	
6. Allowable Emissions Comment (Description of Operating Method): Rule: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

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):	

G. VISIBLE EMISSIONS INFORMATION

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

Visible Emissions Limitation: Visible Emissions Limitation 1_ of 2___

1. Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity: ☒ Rule ☐ 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: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

Visible Emissions Limitation: Visible Emissions Limitation 2__ of 2_

1. Visible Emissions Subtype: *	2. Basis for Allowable Opacity: ☒ Rule ☐ Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Recordkeeping	
8. 5. Visible Emissions Comment: * Excess emission during periods of startup, shutdown or malfunction are permitted provided that best operational practices to minimize emissions are adhered to and the duration of the excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. Rule: 62-210.700(1), F.A.C.; Permit Nos. 1050221-009-AV; 1050334-001-AC.	

H. CONTINUOUS MONITOR INFORMATION

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

Continuous Monitoring System: Continuous Monitor 1__ of 4__

1. Parameter Code: EM	2. Pollutant(s): CO
3. CMS Requirement:	☒ Rule ☐ Other
4. Monitor Information... Manufacturer: Rosemount Analytical Model Number: MLT	Serial Number: 30082674392
5. Installation Date: March 23, 2004	6. Performance Specification Test Date: June 10, 2004
7. Continuous Monitor Comment: Rule: Permit Nos. 1050221-009-AV; 1050334-001-AC.	

Continuous Monitoring System: Continuous Monitor 2__ of 4__

1. Parameter Code: EM	2. Pollutant(s): O2
3. CMS Requirement:	☒ Rule ☐ Other
4. Monitor Information... Manufacturer: Rosemount Analytical Model Number: MLT	Serial Number: 30082674392
5. Installation Date: March 23, 2004	6. Performance Specification Test Date: June 10, 2004
7. Continuous Monitor Comment: Rule: Permit Nos. 1050221-009-AV; 1050334-001-AC.	

H. CONTINUOUS MONITOR INFORMATION

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

Continuous Monitoring System: Continuous Monitor 3__ of 4__

1. Parameter Code: EM	2. Pollutant(s): NOX (outlet)
3. CMS Requirement:	☒ Rule ☐ Other
4. Monitor Information... Manufacturer: Rosemount Analytical Model Number: NGA-CLD	Serial Number: U1006821
5. Installation Date: March 23, 2004	6. Performance Specification Test Date: May 6, 2004
7. Continuous Monitor Comment: Rule: Permit Nos. 1050221-009-AV; 1050334-001-AC.	

Continuous Monitoring System: Continuous Monitor 4__ of 4__

1. Parameter Code: EM	2. Pollutant(s): NOX (inlet)
3. CMS Requirement:	☒ Rule ☐ Other
4. Monitor Information... Manufacturer: Rosemount Analytical Model Number: NGA-CLD	Serial Number: U10006519
5. Installation Date: March 23, 2004	6. Performance Specification Test Date: May 6, 2004
7. Continuous Monitor Comment: Rule: Permit Nos. 1050221-009-AV; 1050334-001-AC.	

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)
☒ Attached, Document ID: Attachment A-2 ☐ 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)
☒ Attached, Document ID: Attachment A-8 ☐ Previously Submitted, Date _____

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)
☒ Attached, Document ID: Attachment A-9 ☐ Previously Submitted, Date _____

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)
☒ Attached, Document ID: Attachment A-10 ☐ Previously Submitted, Date _____
☐ 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)
☐ Attached, Document ID: _____ ☐ Previously Submitted, Date _____
☒ Not Applicable

6. Compliance Demonstration Reports/Records

☐ Attached, Document ID: _____

Test Date(s)/Pollutant(s) Tested: _____

_____

☒ Previously Submitted, Date: June 26, 2007

Test Date(s)/Pollutant(s) Tested: _____

_____

☐ To be Submitted, Date (if known): _____

Test Date(s)/Pollutant(s) Tested: _____

_____

☐ 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

☐ Attached, Document ID: _____ ☒ Not Applicable

Additional Requirements for Air Construction Permit Applications N/A

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))
   ☐ Attached, Document ID: _____ ☐ Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and Rule 62-212.500(4)(f), F.A.C.)
   ☐ Attached, Document ID: _____ ☐ Not Applicable
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only)
   ☐ Attached, Document ID: _____ ☐ Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements
   ☒ Attached, Document ID: Attachment A-5_____
2. Compliance Assurance Monitoring
   ☐ Attached, Document ID: _____ ☒ Not Applicable
3. Alternative Methods of Operation
   ☐ Attached, Document ID: _____ ☒ Not Applicable
4. Alternative Modes of Operation (Emissions Trading)
   ☐ Attached, Document ID: _____ ☒ Not Applicable
5. Acid Rain Part Application
   ☐ Certificate of Representation (EPA Form No. 7610-1)
   ☐ Copy Attached, Document ID:
   ☒ Acid Rain Part (Form No. 62-210.900(1)(a))
   ☒ Attached, Document ID: Attachment A-12 ☐ Previously Submitted, Date:_____
   ☐ Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
   ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☐ New Unit Exemption (Form No. 62-210.900(1)(a)2.)
   ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☐ Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
   ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☐ Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
   ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☐ Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
   ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☐ Not Applicable

Additional Requirements Comment

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: Cooling Tower (OEC)

3. Emissions Unit Identification Number: EU 011

4. Emissions Unit Status Code:	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:	8. Acid Rain Unit?
A	N/A	N/A	49	☐ Yes ☒ No

9. Package Unit:
Manufacturer: Model Number:

10. Generator Nameplate Rating:

11. Emissions Unit Comment:

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:
   High efficiency, low velocity drift eliminators

2. Control Device or Method Code(s): 015

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 140,000 gal/min	
2. Maximum Production Rate:	
3. Maximum Heat Input Rate:	
4. Maximum Incineration Rate: pounds/hr tons/day	
5. Requested Maximum Operating Schedule:	
24 hours/day	7 days/week
52 weeks/year	8,760 hours/year
6. Operating Capacity/Schedule Comment: Maximum process or throughput rate is water recirculation rate.	

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: T1-T8	2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Cooling tower consisting of 8 identical cells		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: N/A		
5. Discharge Type Code: V	6. Stack Height: 55 feet	7. Exit Diameter: 28 feet
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: 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: Stack height and diameter are based on each individual cell. Exit temperature and actual volumetric flow rate varies with ambient temperature.		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Cooling water		
2. Source Classification Code (SCC): 38500101	3. SCC Units: Thousand gallons transferred	
4. Maximum Hourly Rate: 8,400	5. Maximum Annual Rate: 73,584,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Maximum hourly and annual rates are cooling water recirculation rate		

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:		

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
PM10	**015**		**NS**

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM10	2. Total Percent Efficiency of Control:
3. Potential Emissions: N/A lb/hour N/A tons/year	4. Synthetically Limited? ☐ Yes ☒ 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: ☐ 5 years ☐ 10 years
10. Calculation of Emissions:	
11. Potential, Fugitive, and Actual Emissions Comment:	

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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: 0.002 gallons/100 gallons recirculation water flow rate	4. Equivalent Allowable Emissions: N/A lb/hour N/A tons/year
5. Method of Compliance: Vendor design data	
6. Allowable Emissions Comment (Description of Operating Method): Rule: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

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):	

G. VISIBLE EMISSIONS INFORMATION

Complete 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: ☒ Rule ☐ Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA Method 9, if requested	
5. Visible Emissions Comment: Rule: Permit Nos. 1050221-009-AV, 1050334-001-AC.	

Visible Emissions Limitation: Visible Emissions Limitation ___ of __

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: ☐ Rule ☐ Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Recordkeeping	
5. Visible Emissions Comment:	

H. CONTINUOUS MONITOR INFORMATION — N/A

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

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	☐ Rule ☐ 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:	☐ Rule ☐ Other
4. Monitor Information... Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

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)
   ☒ Attached, Document ID: Attachment A-2 ☐ 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)
   ☐ Attached, Document ID: N/A ☐ Previously Submitted, Date ____

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)
   ☐ Attached, Document ID: N/A ☐ Previously Submitted, Date ____

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)
   ☐ Attached, Document ID: _____ ☐ Previously Submitted, Date ____
   ☒ 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)
   ☐ Attached, Document ID: _____ ☐ Previously Submitted, Date ____
   ☒ Not Applicable

6. Compliance Demonstration Reports/Records

☐ Attached, Document ID: _____

Test Date(s)/Pollutant(s) Tested: _____

_____

☒ Previously Submitted, Date: June 26, 2007

Test Date(s)/Pollutant(s) Tested: _____

_____

☐ To be Submitted, Date (if known): _____

Test Date(s)/Pollutant(s) Tested: _____

_____

☐ 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

☐ Attached, Document ID: _____ ☒ Not Applicable

EMISSIONS UNIT INFORMATION
Section [5] of [5]

Additional Requirements for Air Construction Permit Applications N/A

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))
   ☐ Attached, Document ID: _____ ☐ Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and Rule 62-212.500(4)(f), F.A.C.)
   ☐ Attached, Document ID: _____ ☐ Not Applicable
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only)
   ☐ Attached, Document ID: _____ ☐ Not Applicable

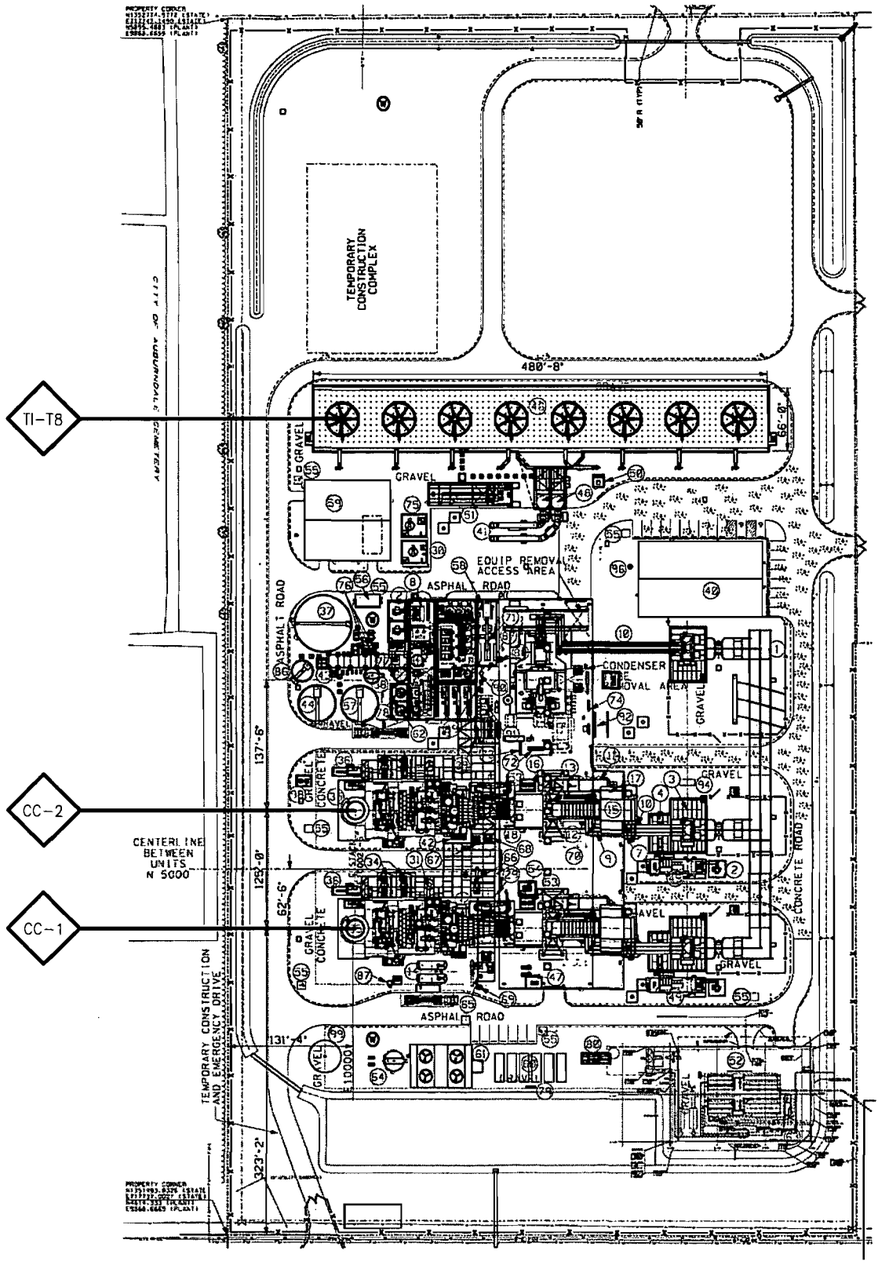
Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements
   ☒ Attached, Document ID: Attachment A-5_____
2. Compliance Assurance Monitoring
   ☐ Attached, Document ID: _____ ☒ Not Applicable
3. Alternative Methods of Operation
   ☐ Attached, Document ID: _____ ☒ Not Applicable
4. Alternative Modes of Operation (Emissions Trading)
   ☐ Attached, Document ID: _____ ☒ Not Applicable
5. Acid Rain Part Application
   ☐ Certificate of Representation (EPA Form No. 7610-1)
   ☐ Copy Attached, Document ID:
   ☐ Acid Rain Part (Form No. 62-210.900(1)(a))
   ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☐ Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
   ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☐ New Unit Exemption (Form No. 62-210.900(1)(a)2.)
   ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☐ Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
   ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☐ Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
   ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☐ Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
   ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☒ Not Applicable

Additional Requirements Comment

ATTACHMENT A-1

FACILITY PLOT PLAN



GRAPHIC SCALE

0 40 80 160

SCALE IN FEET

LEGEND

1.ELECTRICAL SUBSTATION AREA
2.480 TRANSFORMER
3.GENERATOR STEP-UP TRANSFORMER
4.UNIT AUX. TRANSFORMER
5.EXCITATION TRANSFORMER
6.GENERATOR EXCITATION SKID
7.GENERATOR LOW SIDE BREAKER
8.BOP 480V SWITCHGEAR ROOM
9.GENERATOR VI & SURGE CUBICLE
10.ISO-PHASE BUS DUCT
11.ELECTRICAL EQUIPMENT PACKAGE
12.CT GENERATOR
13.CT MECHANICAL PACKAGE
14.AQUEOUS AMMONIA STORAGE TANK
15.COMBUSTION TURBINE AIR INLET FILTER (ABOVE)
16.HYDRAULIC SKID
17.COMPRESSOR WATER WASH SKID
18.COMBUSTION TURBINE (CT)
19.
20.ST GENERATOR
21.OIL MIST ELIMINATOR
22.LEAKOFF CONTROL VLV MODULE SKID
23.GLAND STEAM CONDENSER
24.SEAL STEAM UNIT
25.STEAM TURBINE (ST)
26.HYBRID EJECTOR SKIDS
27.CONDENSATE PUMPS
28.CONDENSER
29.HRSG BOILER
30.SULFURIC ACID STORAGE AREA
31.HPSG BLOWDOWN TANK
32.HEAT RECOVERY STEAM GENERATOR (HRSG)
33.AMMONIA INJECTION SKID
34.BOILER FEED PUMPS
35.HRSG STACK
36.CEMS/MCC BUILDING
37.RAW/FIRE WATER STORAGE TANK
38.B.O. PRODUCT TANK
39.CHEMICAL STORAGE
40.ADMIN./CONTROL ROOM
41.CIRCULATING WATER PIPING
42.DUCT BURNER SKID
43.DEMINERALIZED WATER PUMPS
44.DEMINERALIZED WATER STORAGE TANK
45.WATER TREATMENT BUILDING
46.COOLING TOWER
47.CLOSED CYCLE COOLING WATER PUMPS
48.CIRCULATING WATER PUMPS
49.MAIN POC BUILDING
50.OIL/WATER SEPARATOR
51.COOLING TOWER ELECTRICAL EQUIPMENT ROOM
52.CHEMICAL TREATMENT
53.GAS COMPANY METERING & REGULATION STATION
54.CT DRAIN SUMP
55.EQUIPMENT DRAIN SUMP
56.HYDRANT W/MONITOR
57.FIRE PUMPS ENCLOSURE
58.CONDENSATE STORAGE TANK
59.ST & BOP ELECTRONICS/UPS ROOM
60.WAREHOUSE & MAINT. BLDG.
61.MOBILE TEST TRAILERS
62.WET SURFACE AIR COOLER
63.BULK ACID TANK
64.DTC RECEIVER AREA
65.50,000 GAL. WASTEWATER DISCHARGE TANK & PUMPS
66.KNOCKOUT DRUM
67.MAIN FUEL GAS HEATER
68.PILOT FUEL GAS FILTER SEPARATOR
69.MAIN FUEL GAS FILTER SEPARATOR
70.FUEL GAS DRAINS TANK
71.COOLING SKID
72.BATTERY ROOM
73.ESSENTIAL SERVICE 480V MOTOR CONTROL CENTER
74.(2) BOP 480V MOTOR CONTROL CENTERS
75.STEAM TURBINE 480V MOTOR CONTROL CENTERS
76.SODIUM HYPOCHLORITE STORAGE AREA
77.RAW WATER PUMPS
78.NEUTRALIZATION TANK
79.BULK CAUSTIC TANK
80.MOBIL TEST TRAILER POWER DIST RACK
81.FUEL GAS SCRUBBER/FILTER DRAINS TANK
82.GENERATOR LOOP SEAL
83.CONDENSATE STRAINER
84.OIL MODULE
85.HYDRAULIC SUPPLY UNIT
86.GENERATOR AUX CONTROL ENCLOSURE
87.RECLAIMED WATER TANK
88.POTABLE WATER HEATER SKID
89.POTABLE WATER BOOSTER SKID
90.INSTRUMENT AIR DRYER SKID
91.INSTRUMENT AIR RECEIVER
92.AIR COMPRESSOR
93.HYDROGEN MANIFOLD/BOTTLES
94.STEAM DRAINS TANK
95.STANDBY DIESEL GENERATOR
96.SEAL OIL SUPPLY
97.SANITARY WASTE TANK
98.O2 SCAVENGER INJECTION SKID
99.BLOWDOWN DRAIN SUMP PUMPS
100.WEATHER TOWER

LEGEND

CC–1 EMISSION POINT

ATTACHMENT A-1A.

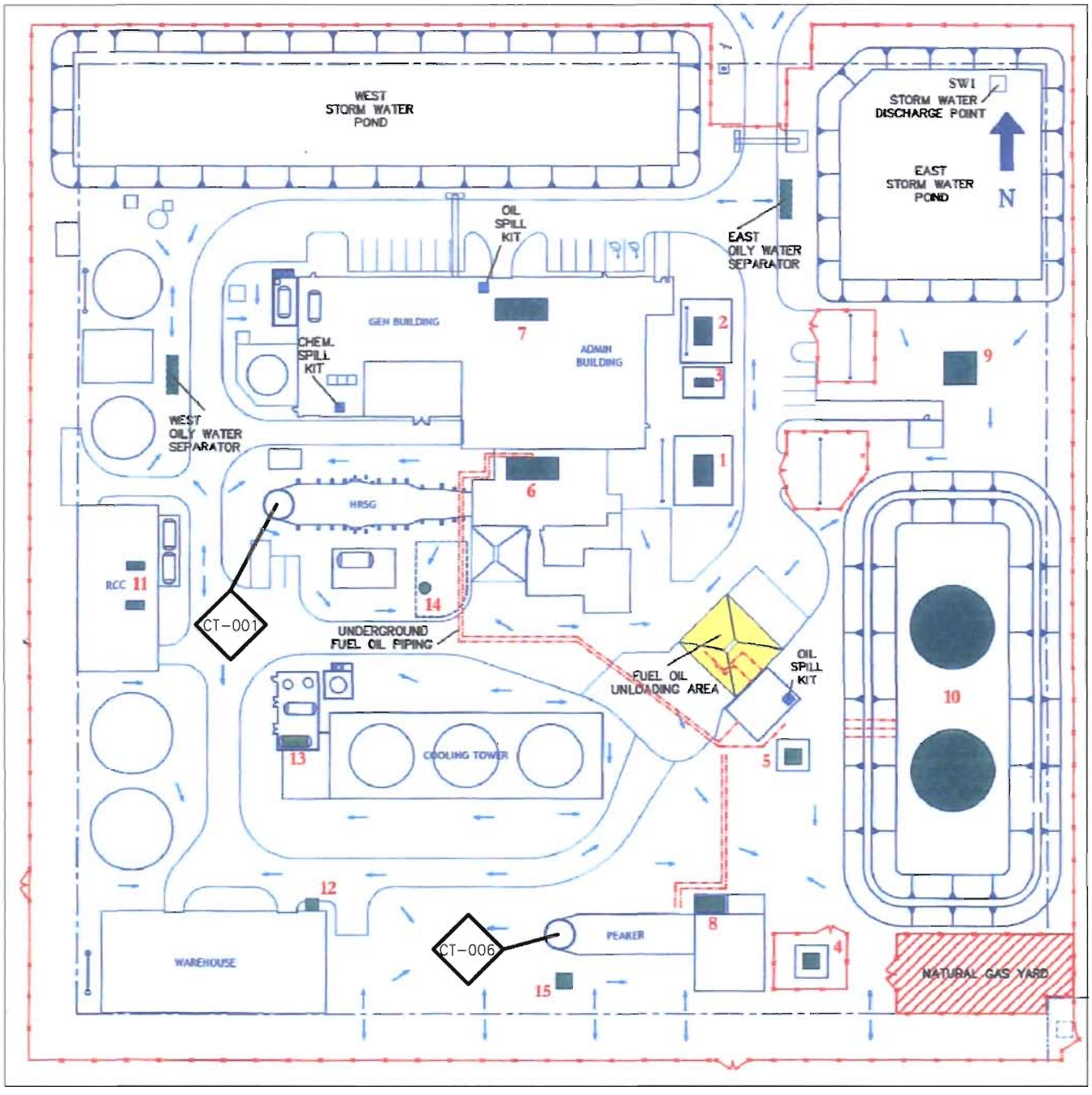
OSPREY ENERGY CENTER PLOT PLAN

CALPINE CONSTRUCTION FINANCE COMPANY, LP

Source: ECT, 2007.

ECT

Environmental Consulting & Technology, Inc.



LEGEND

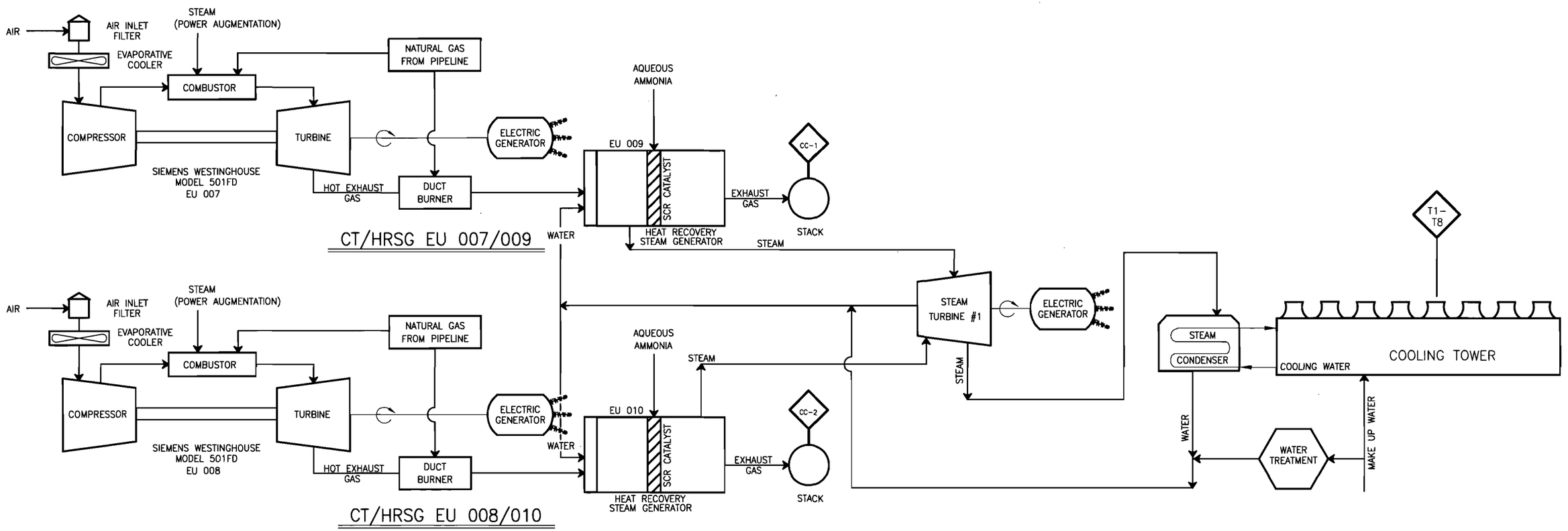
CT-001 EMISSION POINT

ATTACHMENT A-1B.
AUBURNDALE POWER PARTNERSL.P./
AUBURNDALE PEAKER ENERGY CENTER LLC
PLOT PLAN
Source: ECT, 2007.

ECT
Environmental Consulting & Technology, Inc.

ATTACHMENT A-2

PROCESS FLOW DIAGRAM



LEGEND

CC-1 EMISSION POINT

ATTACHMENT A-2.

OSPREY ENERGY CENTER PROCESS FLOW DIAGRAM

CALPINE CONSTRUCTION FINANCE COMPANY, LP

Source: ECT, 2007.

ECT

Environmental Consulting & Technology, Inc.

ATTACHMENT A-3

PRECAUTIONS TO PREVENT EMISSIONS OF UNCONFINED PARTICULATE MATTER

ATTACHMENT A-3

AUBURNDALE ENERGY COMPLEX

PRECAUTIONS TO PREVENT EMISSIONS OF UNCONFINED PARTICULATE MATTER

Unconfined particulate matter (PM) emissions that may result from Auburndale Energy Complex operations include:

- Vehicular traffic on paved 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:

- Chemical or water application to unpaved yard areas.
- Paving and maintenance of roads, parking areas, and yards.
- Landscaping or planting of vegetation.
- Confining abrasive blasting where possible.
- Other techniques, as necessary.

ATTACHMENT A-4

LIST OF INSIGNIFICANT ACTIVITIES

ATTACHMENT A-4

AUBURNDALE ENERGY COMPLEX

LIST OF INSIGNIFICANT ACTIVITIES

1. Internal combustion engines in vehicles used for transportation of passengers or freight.

2. Vacuum pumps in laboratory operations.

3. Equipment used for steam cleaning.

4. Belt or drum sanders having a total sanding surface of 5 square feet or less and other equipment used exclusively on wood or plastics or their products having a density of 20 pounds per cubic foot or more.

5. Equipment used exclusively for space heating, other than boilers.

6. Laboratory equipment used exclusively for chemical or physical analyses, including fume hoods and vents.

7. Brazing, soldering, or welding equipment.

8. One or more emergency generators located within a single facility provided:

   a. None of the emergency generators is subject to the Federal Acid Rain Program.
   b. Total fuel consumption by all such emergency generators within the facility is limited to 32,000 gallons per year of diesel fuel, 4,000 gallons per year of gasoline, 4.4 million standard cubic feet per year of natural gas or propane, or an equivalent prorated amount if multiple fuels are used.

9. One or more heating units, general purpose internal combustion engines, or other combustion devices, all of which are located within a single facility, are not listed elsewhere in Rule 62-210.300(3)(a), F.A.C., and are not pollution control devices, provided:

   a. None of the heating units, general purpose internal combustion engines, or other combustion devices that would be exempted is subject to the Federal Acid Rain Program.

b. Total fuel consumption by all such heating units, general purpose internal combustion engines, and other combustion devices that would be exempted is limited to 32,000 gallons per year of diesel fuel, 4,000 gallons per year of gasoline, 4.4 million standard cubic feet per year of natural gas or propane, or an equivalent prorated amount if multiple fuels are used.

c. Fuel for the heating units, general purpose internal combustion engines, and other combustion devices that would be exempted is limited to natural gas, diesel fuel, gasoline, and propane.

10. Fire and safety equipment.

11. Surface coating operations within a single facility if the total quantity of coatings containing greater than 5.0 percent VOCs, by volume, used is 6.0 gallons per day or less, averaged monthly, provided:

a. Such operations are not subject to a volatile organic compound Reasonably Available Control Technology (RACT) requirement of Chapter 62-296, F.A.C.

b. The amount of coatings used shall include any solvents and thinners used in the process including those used for cleanup.

12 Surface coating operations utilizing only coatings containing 5.0 percent or less VOCs, by volume.

13. Degreasing units using heavier-than-air vapors exclusively, except any such unit using or emitting any substance classified as a hazardous air pollutant.

14. Petroleum lubrication systems.

15. Application of fungicide, herbicide, or pesticide.

16. Non-halogenated solvent storage and cleaning operations, provided the solvents contain none of the hazardous air pollutants listed at Section 62-210.200, F.A.C.

17. Vehicle refueling operations and associated fuel storage.

ATTACHMENT A-4

AUBURNDALE ENERGY COMPLEX

LIST OF INSIGNIFICANT ACTIVITIES

18. Storage tanks less than 250 gallons.

19. General plant maintenance activities including, but not limited to, welding, grinding, and general vehicle repair (excluding air-conditioning systems).

20. Water and wastewater treatment equipment

21. Any emission unit or activity that would:

    a. Not be subject to any unit-specific applicable requirement.
    b. Neither emit nor have the potential to emit:

        (i) 500 pounds per year or more of lead and lead compounds expressed as lead.
        (ii) 1,000 pounds per year or more of any hazardous air pollutant.
        (iii) 2,500 pounds per year or more of total hazardous air pollutants.
        (iv) 5.0 tons per year or more of any other regulated pollutant.

22. One, 265 HP fire water pump diesel engine.

23. One, 1,250 KW emergency generator diesel engine.

24. Oil/water separators.

25. Lube oil tank vents associated with rotating equipment.

26. Architectural (equipment) maintenance painting.

27. Vehicular traffic on plant roadways and grounds.

28. Sand blasting and abrasive grit blasting where temporary total enclosures are used to contain particulate matter emissions.

29. Wet surface air coolers.

30. Turbine vapor extractor.

ATTACHMENT A-4

AUBURNDALE ENERGY COMPLEX

LIST OF INSIGNIFICANT ACTIVITIES

31. Comfort heating with a gross maximum heat input of less than one million Btu per hour.

32. Lube oil tank vents.

33. Temporary boiler at APP.

34. Aboveground Storage Tanks (ASTs) containing No. 2 fuel oil.

ATTACHMENT A-5

IDENTIFICATION OF APPLICABLE REQUIREMENTS

Table A5-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements (Page 1 of 14)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable Emissions Units	Applicable Requirement or Nonapplicability Rationale
40 CFR Part 60 - Standards of Performance for New Stationary Sources				
40 CFR Part 60 Subpart A - General Provisions				
Notification and Recordkeeping	60.7(a)		001, 006, 007, 008, 009, 010	Notification requirements.
	60.7(b) - (h)		001, 006, 007, 008, 009, 010	General recordkeeping and reporting requirements.
Performance Tests	60.8		001, 006, 007, 008, 009, 010	Conduct initial performance tests as required by EPA.
Compliance with Standards	60.11(a) thru (f)		001, 006, 007, 008, 009, 010	General compliance requirements. Addresses requirements for visible emissions tests.
Circumvention	60.12		001, 006, 007, 008, 009, 010	Cannot conceal an emission that would otherwise constitute a violation of an applicable standard.
Monitoring Requirements	60.13		001, 006, 007, 008, 009, 010	Requirements for CEMS and monitoring devices.
Modification	60.14		001, 006, 007, 008, 009, 010	General requirements regarding modifications **(potential future requirement).**
Reconstruction	60.15		001, 006, 007, 008, 009, 010	General requirements regarding reconstructions **(potential future requirement).**
Incorporation by Reference	60.17		001, 006, 007, 008, 009, 010	Specifies ASTM Methods for collecting and analyzing fuel samples.
General Notification and Reporting Requirements	60.19		001, 006, 007, 008, 009, 010	General procedures regarding reporting deadlines.

Table 5A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements (Continued, Page 2 of 14)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable Emissions Units	Applicable Requirement or Nonapplicability Rationale
40 CFR Part 60 Subpart Da - Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978				
Standard for Particulate Matter	60.42a(a)(1)		009, 010	Particulate matter shall not exceed 0.03 lb/MMBtu heat input from the combustion of solid, liquid, or gaseous fuel.
	60.42a(b)		009, 010	Opacity shall not exceed 20% (6 minute average) except for one 6-minute period per hour of not more than 27% opacity.
Standard for Sulfur Dioxide	60.43a(b)(1) and (2)		009, 010)	Sulfur dioxide emissions shall not exceed 0.80 lb/MMBtu heat input and 10 percent of the potential combustion concentration (90 percent reduction) or 100 percent of the potential combustion concentration (0 percent reduction) when emissions are less than 0.20 lb/MMBtu for gaseous fossil fuels.
Standard for Nitrogen Oxides	60.44a(d)(1)		009, 010	Nitrogen oxide emissions shall not exceed 1.6 lb/MW-hr.
Compliance Provisions, PM	60.46a(a)		009, 010	Compliance with the 0.03 lb/MMBtu particulate matter standard constitutes compliance with the percent reduction requirement.
Compliance Provisions, PM and NO_x	60.46a(c)		009, 010	The particulate matter and nitrogen oxides standards apply at all times except during periods of startup, shutdown, and malfunction. The sulfur dioxide standards apply at all times except during periods of startup, shutdown, or when both emergency conditions exist and the procedures of 60.46a(d) are implemented.
Compliance Provisions, SO_2 and NO_x	60.46a(e)		009, 010	After initial performance tests, compliance with the sulfur dioxide and nitrogen oxides emission limits and percentage reduction requirements is based on the average emission rates for 30 successive boiler days.
Compliance Provisions, SO_2 and NO_x	60.46a(g)		009, 010	Compliance is determined by calculating the arithmetic average of all hourly emission rates for SO_2 and NO_x for the 30 successive boiler operating

Table 5A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements (Continued, Page 3 of 14)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable Emissions Units	Applicable Requirement or Nonapplicability Rationale
				days, except for data obtained during startup, shutdown, malfunction (NO_x only), or emergency conditions (SO_2 only). Compliance with the percentage reduction requirement for SO_2 is determined based on the average inlet and average outlet SO_2 emission rates for the 30 successive boiler operating days.
Compliance Provisions	60.46a(h)		009, 010	Requirements pertaining to compliance procedures if the minimum quantity of emissions monitoring data required by 60.47a is not obtained.
Duct Burner Compliance Provisions, NO_x	60.46a(k)		009, 010	Compliance provisions for the with the 1.6 lb/MW-hr NO_x standard..
Emissions Monitoring	60.47a		009, 010	Requirements for continuous nitrogen oxides, oxygen or carbon dioxide monitoring systems.
Compliance Determination Procedures and Methods	60.48a(a) – (e)		009, 010	Requirements for compliance determination procedures.
Reporting Requirements, CEMS Evaluations	60.49a(a)		009, 010	Requires submittal of continuous monitor performance evaluations to EPA.
Reporting Requirements	60.49a(b)-(j)		009, 010	Reporting requirements.
40 CFR Part 60 Subpart GG - Standards of Performance for Stationary Gas Turbines				
Standard for Nitrogen Oxides	60.332		001, 006, 007, 008	Specifies formula for allowable nitrogen oxide emission limit of 75 ppmv at 15% oxygen (with corrections for heat rate and fuel bound nitrogen) for electric utility stationary gas turbines with peak heat input greater than 100 MMBtu/hr.
Standard for Sulfur Dioxide	60.333		001, 006, 007, 008	Establishes exhaust gas SO_2 limit of 0.015 % by volume (at 15% O2, dry) and maximum fuel sulfur content of 0.8 % by weight.

Table 5A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements (Continued, Page 4 of 14)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable Emissions Units	Applicable Requirement or Nonapplicability Rationale
Monitoring Requirements	60.334(c)		001, 006, 007, 008	CT-1 and CT-2 use nitrogen oxide CEMS in lieu of continuous monitoring of fuel consumption and the ratio of water to fuel combusted for excess emissions monitoring.
Natural Gas Nitrogen Content Monitoring	60.334(h)(2)		001, 006, 007, 008	An allowance for fuel bound nitrogen (FBN) is not claimed. Therefore no monitoring of natural gas nitrogen content is required.
Natural Gas Sulfur Content Monitoring	60.334(h)(3)		001, 006, 007, 008	Gaseous fuel used at the Auburndale Energy Complex meets the definition of natural gas. Therefore no monitoring of natural gas sulfur content is required.
Excess Emissions Monitoring Requirements	60.334(j)(iii)		001, 006, 007, 008	Excess emissions monitoring requirements for turbines using NO_x and diluent CEMS.
Test Methods and Procedures	60.335(a), (b), (c)		001, 006, 007, 008	Specifies test methods and monitoring procedures.
40 CFR Part 60 - Subparts B, C, Cb, Cc, Cd, Ce, Db, Dc, E, Ea, Eb, Ec, F, G, H, I, J, K, Ka, Kb, L, M, N, N, Na, O, P, Q, R, S, T, U, V, W, X, Z, AA, AAa, BB, CC, DD, EE, HH, KK, LL, MM, NN, PP, QQ, RR, SS, TT, UU, VV, WW, XX, AAA, BBB, DDD, FFF, GGG, HHH, III, JJJ, KKK, LLL, NNN, OOO, PPP,QQQ, RRR, SSS, TTT, UUU, VVV, WWW, AAAA, BBBB, CCCC, DDDD, EEEE, FFFF, HHHH, IIII, and KKKK..		X		None of the listed NSPS' contain requirements that are applicable to the Auburndale Energy Complex.
40 CFR Part 61 - National Emission Standards for Hazardous Air Pollutants for Source Categories: Subparts B, C, D, E, F, H, I, J, L, M, N, O, Q, R, T, V, W, Y, BB, and FF.		X		None of the listed NESHAPS' contain requirements that are applicable to the Auburndale Energy Complex.

Table 5A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements (Continued, Page 5 of 14)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable Emissions Units	Applicable Requirement or Nonapplicability Rationale
40 CFR Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories: Subparts A, B, C, D, E, F, G, H, I, J, L, M, N, N, O, Q, R, S, T, U, W, X, Y, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, OO, PP, QQ, RR, SS, TT, UU, VV, WW, YY, CCC, DDD, EEE, GGG, HHH, III, JJJ, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, TTT, UUU, VVV, XXX, AAAA, CCCC, DDDD, EEEE, FFFF, GGGG, HHHH, IIII, JJJJ, KKKK, MMMM, NNNN, OOOO, PPPP, QQQQ, RRRR, SSSS, TTTT, UUUU, VVVV, XXXX, YYYY, ZZZZ, AAAAA, BBBBB, CCCCC, DDDDD, EEEEE, FFFFF, GGGGG, HHHHH, IIIII, JJJJJ, KKKKK, LLLLL, MMMMM, NNNNN, PPPPP, QQQQQ, RRRRR, SSSSS, TTTTT, and WWWWW.		X		None of the listed NESHAPS' contain requirements that are applicable to the Auburndale Energy Complex.
40 CFR Part 72 - Acid Rain Program Permits				
40 CFR Part 72 Subpart A - Acid Rain Program General Provisions				
Standard Requirements	72.9		001, 006, 007, 008	General acid rain requirements.
40 CFR Part 72 Subpart B - Designated Representative				
Designated Representative	72.20 - 72.24		001, 006, 007, 008	General requirements pertaining to the designated representative.

Table 5A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements (Continued, Page 6 of 14)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable Emissions Units	Applicable Requirement or Nonapplicability Rationale
40 CFR Part 72 Subpart C - Acid Rain Application				
Requirements to Apply	72.30(a)		001, 006, 007, 008	Requirements to submit a complete Acid Rain permit by the applicable deadline.
	72.30(b)(2) (i) and (ii)		001, 006, 007, 008	Deadline to submit a complete Acid Rain permit application.
Requirements to Apply	72.30(c)		001, 006, 007, 008	Duty to reapply - The designated representative shall submit a complete Acid Rain permit application for each source with an affected unit at least six months prior to the expiration of an existing Acid Rain permit governing the unit during Phase II or such longer time as may be approved under Part 70 of this chapter that ensures that the term of the existing permit will not expire before the effective date of the permit for which the application is submitted.
Requirements to Apply	72.30(d)		001, 006, 007, 008	Requirements to submit an original and three copies of all Phase II permit applications to the State permitting authority where the administrator is not the permitting authority.
Information for Acid Rain Permit Applications	72.31		001, 006, 007, 008	General permit application requirements.
Permit Application Shield	72.32		001, 006, 007, 008	Permit application shield provisions for timely and complete Acid Rain permit applications. Application is binding pending issuance of Acid Rain Permit.
40 CFR Part 72 Subpart D – Acid Rain Compliance Plan and Compliance Options				
General	72.40(a)(1)		001, 006, 007, 008	General Compliance Plan Requirements for SO_2.
40 CFR Part 72 Subpart E - Acid Rain Permit Contents				

Table 5A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements (Continued, Page 7 of 14)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable Emissions Units	Applicable Requirement or Nonapplicability Rationale
Permit Shield	72.51		001, 006, 007, 008	Permit shield provisions. Units operating in compliance with an Acid Rain Permit are deemed to be operating in compliance with the Acid Rain Program.
40 CFR Part 72 Subpart H - Permit Revisions				
General, Additional Information	72.80(g)		001, 006, 007, 008	Requirement to submit supplementary or corrected information upon becoming aware of a failure to submit relevant information or a prior incorrect submittal **(potential future requirement).**
Fast-Track Modifications	72.82(a) and (c)		001, 006, 007, 008	Procedures for fast-track modifications to Acid Rain Permits **(potential future requirement).**
40 CFR Part 72 Subpart I - Compliance Certification				
Annual Compliance Certification Report	72.90		001, 006, 007, 008	Requirement to submit an annual compliance report.
40 CFR Part 75 - Continuous Emission Monitoring				
40 CFR Part 75 Subpart A - General				
Compliance Dates	75.4 (a)(3) and (b)(2)		001, 006, 007, 008	Requirement to complete all certification tests for CEMS and COMS.
Prohibitions	75.5		001, 006, 007, 008	General monitoring prohibitions.
40 CFR Part 75 Subpart B - Monitoring Provisions				
General Operating Requirements	75.10		001, 006, 007, 008	General acid rain monitoring requirements.

Table 5A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements (Continued, Page 8 of 14)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable Emissions Units	Applicable Requirement or Nonapplicability Rationale
Specific Provisions for Monitoring SO_2 Emissions	75.11(d)(2)		001, 006, 007, 008	SO_2 continuous monitoring requirements for gas and oil fired units using Appendix D.
Specific Provisions for Monitoring NO_x Emissions	75.12(a) and (c)		001, 006, 007, 008	NO_x continuous monitoring requirements.
Specific Provisions for Monitoring Opacity	75.14(c)		001, 006, 007, 008	Opacity continuous monitoring exemption for gas-fired units.
40 CFR Part 75 Subpart C - Operation and Maintenance Requirements				
Recertification Requirements	75.20(b)		001, 006, 007, 008	Requires that monitoring systems meet recertification requirements by the deadlines stipulated in 75.4. **(potential future requirement)**
	75.20(a)(1)		001, 006, 007, 008	Requires notification of recertification and revised test dates at least 45 days prior to certification testing. **(potential future requirement)**
	75.20(a)(2)		001, 006, 007, 008	Requires submittal of recertification applications in accordance with 75.60. **(potential future requirement)**
	75.20(a)(5)		001, 006, 007, 008	Procedures to be used in the event that the agency issues a disapproval of certification application or certification status. **(potential future requirement)**
	75.20(c)(1), (3), (10), and (19)		001, 006, 007, 008	Recertification procedure requirements. **(potential future requirement)**

Table 5A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements (Continued, Page 9 of 14)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable Emissions Units	Applicable Requirement or Nonapplicability Rationale
	75.20(g)		001, 006, 007, 008	Recertification procedure requirements for excepted monitoring systems under Appendices D and E.. **(potential future requirement)**
Quality Assurance and Quality Control Requirements	75.21(a), c), (d), and (e)		001, 006, 007, 008	General QA/QC requirements (excluding COMS).
Reference Test Methods	75.22		001, 006, 007, 008	Specifies required test methods to be used for certification or recertification testing.
Out-Of-Control Periods and Adjustment for System Bias	75.24 except 75.24(e)		001, 006, 007, 008	Specifies out-of-control periods and the required actions to be taken when they occur (excluding COMS).
40 CFR Part 75 Subpart D - Missing Data Substitution Procedures				
General Provisions	75.30		001, 006, 007, 008	General missing data requirements.
Determination of Monitor Data Availability for Standard Missing Data Procedures	75.32		001, 006, 007, 008	Monitor data availability procedure requirements after the first 720 and 2,160 quality-assured monitor operating hours for SO_2 and CO_2 pollutant concentration monitor and flow monitor/NO_x CEMS, respectively.
Standard Missing Data Procedures for SO_x, NO_x, and Flow Rate	75.33		001, 006, 007, 008	Missing data substitution procedure requirements after the first 720 and 2,160 quality-assured monitor operating hours for SO_2 pollutant concentration monitor and flow monitor/NO_x CEMS, respectively.
Appendix D to Part 75 - Optional SO_2 Emissions Data Protocol for Gas-Fired and Oil-Fired Units				
Missing Data Procedures	Appendix D 2.4		001, 006, 007, 008	Missing data substitution requirements for units using Appendix D – Optional SO_2 Emissions Data Protocol for Gas-Fired and Oil-Fired Units.
Appendix G to Part 75 – Determination of CO_2 Emissions				

Table 5A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements (Continued, Page 10 of 14)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable Emissions Units	Applicable Requirement or Nonapplicability Rationale
Missing Data Procedures	Appendix G 5		001, 006, 007, 008	Missing data substitution requirements for units using Appendix G – Determination of CO_2 Emissions.
40 CFR Part 75 Subpart E - Alternative Monitoring Systems				
Alternative Monitoring Systems	75.40 - 75.48	X		Optional requirements for alternative monitoring systems.
40 CFR Part 75 Subpart F - Recordkeeping Requirements				
Monitoring Plan	75.53(a), (b), (e), and (f)		001, 006, 007, 008	Requirement to prepare and maintain a Monitoring Plan
General Recordkeeping Provisions	75.57		001, 006, 007, 008	General recordkeeping provisions.
General Recordkeeping Provisions for Specific Situations	75.58(c)		001, 006, 007, 008	SO_2 recordkeeping provisions for gas-fired or oil-fired units using Appendix D.
Certification, Quality Assurance, and Quality Control Record Provisions	75.59(a) and (b)		001, 006, 007, 008	General QA/QC recordkeeping requirements.
40 CFR Part 75 Subpart G - Reporting Requirements				
General Provisions	75.60		001, 006, 007, 008	General reporting requirements.

Table 5A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements (Continued, Page 11 of 14)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable Emissions Units	Applicable Requirement or Nonapplicability Rationale
Notification of Certification and Recertification Test Dates	75.61		001, 006, 007, 008	Requires written submittal of certification tests, recertification test, and revised test dates for CEMS. Notice of certification testing shall be submitted at least 45 days prior to the first day of certification for recertification testing. Notification of any proposed adjustment to certification testing dates must be provided at least 7 business days prior to the proposed date change.
Monitoring Plan	75.62		001, 006, 007, 008	Monitoring Plan required to be submitted no later than 45 days prior to the certification test.
Certification or Recertification Application	75.63		001, 006, 007, 008	Requires submittal of a certification application within 30 days after completing the certification test.
Quarterly Reports	75.64(a)(1) - (5)		001, 006, 007, 008	Requirement to submit quarterly data report.
	75.64(b), (c), (d)		001, 006, 007, 008	Requirement to submit compliance certification in support of each quarterly data report. Requirement to submit quarterly reports in an electronic format to be specified by EPA.
40 CFR Part 77 - Excess Emissions				
Offset Plans for Excess Emissions of Sulfur Dioxide	77.3		001, 006, 007, 008	Requirement to submit offset plans for excess SO_2 emissions not later than 60 days after the end of any calendar year during which an affected unit has excess SO_2 emissions. Required contents of offset plans are specified **(potential future requirement)**.

Table 5A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements (Continued, Page 12 of 14)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable Emissions Units	Applicable Requirement or Nonapplicability Rationale
Offset Plans for Excess Emissions of Sulfur Dioxide	77.5(b)		001, 006, 007, 008	Requirement for the Designated Representative to hold enough allowances in the appropriate compliance subaccount to cover deductions to be made by EPA if a timely and complete offset plan is not submitted or if EPA disapproves a proposed offset plan **(potential future requirement).**
Penalties for Excess Emissions of Sulfur Dioxide and Nitrogen Oxides	77.6		001, 006, 007, 008	Requirement to pay a penalty if excess emissions of SO_2 or NO_x occur at any affected unit during any year **(potential future requirement).**
40 CFR Part 78 - Appeal Procedures for Acid Rain Program				
Appeal Procedures	78.1 - 78.20		001, 006, 007, 008	Optional appeal procedures for EPA Acid Rain program decisions **(optional future requirement).**
40 CFR Part 82 - Protection of Stratospheric Ozone				
Production and Consumption Controls	Subpart A	X		Auburndale Energy Complex does not produce or consume ozone depleting substances.
Servicing of Motor Vehicle Air Conditioners	Subpart B	X		Auburndale Energy Complex does not perform servicing of motor vehicles which involves refrigerant in the motor vehicle air conditioner. All such servicing is conducted off-site by persons who comply with Subpart B requirements.

Table 5A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements (Continued, Page 13 of 14)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable Emissions Units	Applicable Requirement or Nonapplicability Rationale
Ban on Nonessential Products Containing Class I Substances and Ban on Nonessential Products Containing or Manufactured with Class II Substances	Subpart C	X		Auburndale Energy Complex does not sell or distribute any banned nonessential substances.
The Labeling of Products Using Ozone-Depleting Substances	Subpart E	X		Auburndale Energy Complex does not produce any products containing ozone depleting substances.
Subpart F - Recycling and Emissions Reduction				
Prohibitions	82.154	X		Auburndale Energy Complex personnel do not maintain, service, repair, or dispose of any appliances. All such activities will be performed by independent parties in compliance with 82.154.
Required Practices	82.156 except 82.156(i)(5), (6), (9), (10), and (11)		Appliances as defined by 82.152—any device which contains and uses a Class I or II substance as a refrigerant and which is used for household or commercial purposes including any air conditioner, refrigerator, chiller, or freezer.	Contractors will maintain, service, repair, and dispose of any appliances in compliance with 82.156 required practices.
Technician Certification	82.161	X		Auburndale Energy Complex Personnel do not maintain, service, repair, or dispose of any appliances and therefore are not subject to technician

Table 5A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements (Continued, Page 14 of 14)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable Emissions Units	Applicable Requirement or Nonapplicability Rationale
				certification requirements.
Certification By Owners of Recovery and Recycling Equipment	82.162	X		Auburndale Energy Complex Personnel do not maintain, service, repair, or dispose of any appliances and therefore do not use recovery and recycling equipment.
Reporting and Recordkeeping Requirements	82.166(k), (m), and (n)		Appliances as defined by 82.152.	Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep servicing records documenting the date and type of service, as well as the quantity of refrigerant added.
40 CFR Part 50 - National Primary and Secondary Ambient Air Quality Standards Requirements		X		State agency requirements - not applicable to individual emission sources.
40 CFR Part 51 - Preparation, Adoption, and Submittal of Implementation Plans		X		State agency requirements - not applicable to individual emission sources.
40 CFR Part 52 - Approval and Promulgation of Implementation Plans		X		State agency requirements - not applicable to individual emission sources.
40 CFR Part 62 - Approval and Promulgation of State Plans for Designated Facilities and Pollutants		X		State agency requirements - not applicable to individual emission sources.
40 CFR Part 70 - State Operating Permit Programs		X		State agency requirements - not applicable to individual emission sources.
40 CFR Parts 53, 54, 55, 56, 58, 62, 66, 67, 68, 69, 71, 74, 77, 79, 80, 81, 85, 86, 87, 88, 89, and 90		X		The listed regulations do not contain any requirements that are applicable to the Auburndale Energy Complex.

Source: ECT, 2007.

Table A5-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 1 of 18)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
Chapter 62-4, F.A.C. - Permits: Part I General					
Scope of Part I	62-4.001, F.A.C.	X			Contains no applicable requirements.
Definitions	62-4.020, .021, F.A.C.	X			Contains no applicable requirements.
General Prohibition	62-4.030, F.A.C		X		All stationary air pollution sources must be permitted, unless otherwise exempted.
Exemptions	62-4.040(1)(a) and (b), F.A.C		X		Certain structural changes exempt from permitting. Other stationary sources exempt from permitting upon FDEP insignificance determination.
Procedures to Obtain Permits	62-4.050(1), (2), and (3), F.A.C.		X		General permitting procedures including filing in quadruplicate and PE certification.
Air Pollution Permit Processing Fees	62-4.050(4)(a)1., 4., 5., F.A.C.		X		Processing fees for air pollution permits. Permit processing fees are not required for operating permits or non-PSD construction permits for sources holding a Title V permit. **(potential future requirement)**
Permit Processing, Response to Requests for Additional Information	62-4.055(1), F.A.C.		X		If additional information is requested by FDEP, applicants have 90 days to submit the additional information. Upon request, FDEP will grant an additional 90 day period to provide the requested information. Further extensions may be granted if the applicant shows good cause. **(potential future requirement)**

Table A5-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 2 of 18)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
Permit Processing, Option to Request a Hearing	62-4.055(2), F.A.C.		X		If a FDEP request for additional information is not considered authorized by law or rule, the applicant may request a hearing. **(optional future requirement)**
Permit Processing, Option to Request Department Permit Processing	62-4.055(4), F.A.C.		X		If a FDEP request for additional information is not considered authorized by law or rule, the applicant may request that FDEP process the permit application without the requested information. **(optional future requirement)**
Permit Processing	62-4.055(3), (5), and (6) F.A.C.	X			FDEP permit processing procedures. Contains no applicable requirements.
Consultation	62-4.060, F.A.C.	X			Consultation with FDEP is encouraged, not required.
Standards for Issuing or Denying Permits; Issuance; Denial	62-4.070, F.A.C	X			Establishes FDEP standard permitting procedures. Contains no applicable requirements.
Modification of Permit Conditions	62-4.080(1) F.A.C		X		For good cause, permittee may be required to conform to new or additional conditions. **(potential future requirement)**
Modification of Permit Conditions	62-4.080(2) and (3) F.A.C		X		Permittee may request a permit modification or permit extension. **(optional future requirement)**

Table A5-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 3 of 18)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
Renewals	62-4.090, F.A.C.		X		Establishes permit criteria. Requests for renewal of a Title V operating permit are due prior to 180 days before permit expiration. Applications submitted prior to the due date are considered timely and sufficient. For timely and sufficient applications, the existing permit shall remain in effect until the renewal application has been finally acted upon by FDEP. Additional criteria are cited at 62-213.430(3), F.A.C. **(future requirement)**
Suspension and Revocation	62-4.100, F.A.C.	X			Establishes FDEP permit suspension and revocation criteria. Contains no applicable requirements.
Financial Responsibility	62-4.110, F.A.C.	X			FDEP has not required proof of financial responsibility or posting of a bond for the Auburndale Energy Complex.
Transfer of Permits	62-4.120, F.A.C.	X			A sale or legal transfer of a permitted facility is not being requested for the Auburndale Energy Complex.
Plant Operation - Problems	62-4.130, F.A.C.		X		Immediate notification is required whenever the permittee is temporarily unable to comply with any permit condition. Notification content is specified. **(potential future requirement)**
Permit Review	62-4.150, F.A.C.		X		Failure to request a hearing within 14 days of proposed or final Agency action on a permit application shall be deemed a waiver to the right to an administrative hearing. **(optional future requirement)**

Table A5-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 4 of 18)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
Permit Conditions	62-4.160, F.A.C.	X			Lists general conditions that FDEP must include in permits. Contains no applicable requirements.
Chapter 62-4, F.A.C. - Part II Specific Permits; Requirements					
Construction Permits	62-4.210, F.A.C.		X		General requirements for construction permits. **(potential future requirement)**
Operation Permits for New Sources	62-4.220, F.A.C.		X		General requirements for new source operation permits. **(potential future requirement)**
Chapter 62-4, F.A.C. - Part III Procedures for General Permits	62-4.510 thru 62-4.540, F.A.C.	X			Not applicable to the Auburndale Energy Complex.
Chapter 62-204, F.A.C. - Air Pollution Control - General Provisions					
State Implementation Plan	62-204.100, .200, .220(1)-(3), .240, .260, .320, .340, .360, .400, and .500, F.A.C.	X			Contains no applicable requirements.
Ambient Air Quality Protection	62-204.220(4), F.A.C.		X		Assessments of ambient air pollutant impacts must be made using applicable air quality models, data bases, and other requirements approved by FDEP and specified in 40 CFR Part 51, Appendix W. Air quality modeling is not required for Title V permit applications. **(potential future requirement)**

Table A5-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 5 of 18)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
Federal Regulations Adopted by Reference	62-204.800(8)(a), (b)1., (b)31., and (b)39., (c), (d), and (e), F.A.C.			001, 006, 007, 008, 009, 010	All Federal Regulations cited in the rules by the Department are adopted and incorporated by reference. Specifically, the new source performance standards contained in 40 CFR 60 Subpart A (CT/HRSG-1, CT/HRSG-2), Subpart Da (HRSG-1, HRSG-2) and Subpart GG (CT-1, CT-2) are applicable to the Auburndale Energy Complex.
Federal Regulations Adopted by Reference	62-204.800(15), F.A.C.		X		State (FDEP) Part 70 (Title V Permit) Program requirements; see Table A5-1 for detailed federal regulatory citations. Contains no applicable requirements.
Federal Regulations Adopted by Reference	62-204.800(16), (17), (18), (20), and (21), F.A.C.			001, 006, 007, 008	Acid Rain Program; see Table A5-1 for detailed federal regulatory citations.
Federal Regulations Adopted by Reference	62-204.800 (19), F.A.C.	X			Acid Rain NO_x Emission Reduction Program; see Table A5-1 for detailed federal regulatory citations.
Federal Regulations Adopted by Reference	62-204.800(23)(e), F.A.C.		X		Protection of Stratospheric Ozone; see Table A5-1 for detailed federal regulatory citations.
Chapter 62-210, F.A.C. - Stationary Sources - General Requirements					
Purpose and Scope	62-210.100, F.A.C.	X			Contains no applicable requirements.
Definitions	62-210.200, F.A.C.	X			Contains no applicable requirements.
Permits Required, Air	62-210.300(1), F.A.C.		X		Requirements for air construction permits.

Table A5-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 6 of 18)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
Construction					**(potential future requirement).**
Permits Required, Air Operation	62-210.300(2)(a), F.A.C.		X		Air operation permits required, including permits.
Permits Required, Exemptions	62-210.300(3), F.A.C.		X		Permit exemptions for certain facilities and sources.
Emission Unit Startup, Reclassification, and Transfer of Air Permits	62-210.300(5), (6), and (7) F.A.C.		X		Startup notification required if a permitted source has been shut down for more than 1 year. Emission unit reclassification and air permit transfer procedures. **(potential future requirements).**
Public Notice and Comment	62-210.350(1), F.A.C.		X		All permit applicants, including those for renewals and revisions, are required to publish notice of proposed agency action.
Additional Notice Requirements for Sources Subject to Prevention of Significant Deterioration or Nonattainment Area New Source Review	62-210.350(2), F.A.C.		X		PSD permit application notice requirements. **(potential future requirements).**
Additional Public Notice Requirements for Sources Subject to Operation Permits for Title V Sources	62-210.350(3), F.A.C.		X		Notice requirements for Title V operating permits, renewals, and revisions.
Administrative Permit Corrections	62-210.360(1), F.A.C.		X		Facility owner shall notify the FDEP by letter of minor corrections to information contained in a permit. **(potential future requirements).**

Table A5-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 7 of 18)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
Annual Operating Report for Air Pollutant Emitting Facility	62-210.370(3)(a)1. and (c), F.A.C.		X		Title V sources are required to submit an annual operating report.
Stack Height Policy	62-210.550, F.A.C.		X		Limits credit in air dispersion studies to good engineering practice (GEP) stack heights.
Circumvention	62-210.650, F.A.C.		X		An applicable air pollution control device cannot be circumvented and must be operated whenever the emission unit is operating.
Excess Emissions	62-210.700(1), (4), (5), and (6) F.A.C.		X		Excess emissions due to startup, shutdown, and malfunction are permitted. Excess emissions due to malfunction must be reported. Excess emissions due to certain other causes are prohibited. **(potential future requirement)**
Forms and Instructions	62-210.900, F.A.C.		X		List required FDEP forms for stationary sources.
Notification Forms for Air General Permits	62-210.920, F.A.C.	X			Contains no applicable requirements.
Chapter 62-212, F.A.C. - Stationary Sources - Preconstruction Review					
Purpose and Scope	62-212.100, F.A.C.	X			Contains no applicable requirements.
General Preconstruction Review Requirements	62-212.300, F.A.C.		X		Air construction permit requirements. Not applicable to Title V operating permit applications. **(potential future requirement)**
Prevention of Significant	62-212.400, F.A.C.		X		PSD permit requirements. Not applicable to

Table A5-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 8 of 18)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
Deterioration					Title V operating permit applications. **(potential future requirement)**
Prevention of Significant Deterioration	62-212.400(7)(b), F.A.C.		X		The operation permit shall contain all operating conditions and provisions required under 62-212.400(7)(a) and set forth in the original or amended construction permit.
New Source Review for Nonattainment Areas	62-212.500, F.A.C.	X			The Auburndale Energy Complex is not located in any nonattainment area or nonattainment area of influence.
Sulfur Storage and Handling Facilities	62-212.600, F.A.C.	X			Applicable only to sulfur storage and handling facilities.
Air Emissions Bubble	62-212.710(2), (3), (5), and (6) F.A.C.		X		Applicant requirements for an air emissions bubble including permit applications, ambient impact analysis, monitoring, and recordkeeping. **(optional future requirement)**
Chapter 62-213, F.A.C. - Operation Permits for Major Sources of Air Pollution					
Purpose and Scope	62-213.100, F.A.C.	X			Contains no applicable requirements.
Responsible Official	62-213.202, F.A.C.		X		Title V sources must designate a responsible official.
Annual Emissions Fee	62-213.205, F.A.C.		X		Title V sources must pay an annual emissions fee.
Title V Air General Permits	62-213.300, F.A.C.	X			Not applicable to the Auburndale Energy

Table A5-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 9 of 18)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
					Complex.
Permits Required	62-213.400(1), F.A.C.		X		Title V sources must operate in compliance with Chapter 62-213.
Permit Revisions Required	62-213.400(2), F.A.C.		X		Lists changes for which a permit revision is required. **(potential future requirement).**
Concurrent Processing of Permit Applications	62-213.405, F.A.C.		X		Applicant may request concurrent processing of a construction permit and Title V permit revision or renewal. **(optional future requirement).**
Changes Without Permit Revision	62-213.410, F.A.C.		X		Certain changes may be made if specific notice and recordkeeping requirements are met. **(potential future requirement)**
Immediate Implementation Pending Revision Process	62-213.412, F.A.C.		X		Certain modifications can be implemented pending permit revision if specific criteria are met.**(potential future requirement)**
Fast-Track Revisions of Acid Rain Parts	62-213.413, F.A.C.			001, 006, 007, 008	Optional provisions for Acid Rain permit revisions. **(optional future requirement)**
Trading of Emissions within a Source	62-213.415, F.A.C.		X		Defines the conditions under which emissions trading is allowable. **(optional future requirement)**
Permit Applications, Timely Submittal	62-213.420(1)(a)3., F.A.C.		X		Title V operating permit application is timely if submitted in accordance with Rule 62-4.090, F.A.C. (Prior to 180 days before permit expiration)

Table A5-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 10 of 18)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
Permit Applications, New or Modified Emission Units	62-213.420(1)(a)4., F.A.C.		X		A Title V source that contains an emissions unit that commences operation or is modified after 10/25/95 is required to submit an application for Title V permit revision at least 90 days prior to the unit's air construction permit expiration, but no later than 180 days after the unit commences operation.
Permit Applications, Standard Information Required	62-213.420(1)(b)1., (3) and (4), F.A.C.		X		Title V operating permit application must contain all the information specified by 62-213.420(3), F.A.C. and be certified by the responsible official.
Permit Applications, Additional Time to Provide Requested Information	62-213.420(1)(b)6., F.A.C.		X		If requested in writing by the applicant prior to the initial due date, FDEP will grant up to 60 additional days to respond to requests for additional information. FDEP may grant additional time beyond 60 days for good cause. **(optional future requirement)**
Permit Applications, Certification by Responsible Official	62-213.420(4), F.A.C.		X		Requires submittal of a Responsible Official (RO) certification for any application form, report, compliance statement, compliance plan, and compliance schedule.
Permit Applications, Acid Rain Part	62-213.420(5), F.A.C.		X		Applicants may request separate processing of the Title V permit and Acid Rain Part. **(optional future requirement)**

Table A5-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 11 of 18)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
Permit Issuance, Renewal, and Revision	62-213.430(3), F.A.C.		X		Permits being renewed are subject to the same requirements that apply to permit issuance. Permit applications shall contain the information specified in 62-210.900(1) and 62-213.420(3), F.A.C.
Permit Issuance, Renewal, and Revision – Insignificant Emission Units and Activities	62-213.430(6), F.A.C.		X		Specifies criteria for insignificant emissions units and activities. Applicants may request FDEP determinations of insignificant emission units or activities. Such requests will be processed in conjunction with a permit or revision application. Insignificant emission units added after issuance of a Title V permit shall be incorporated into the permit at its next renewal.
Permit Content	62-213.440, F.A.C.	X			FDEP standard permit requirements. Contains no applicable requirements.
Permit Review by EPA and Affected States	62-213.450, F.A.C.	X			Contains no applicable requirements.
Permit Shield	62-213.460, F.A.C.		X		Provides permit shield for facilities in compliance with permit terms and conditions.
Forms and Instructions	62-213.900(1), (7), and (8), F.A.C.		X		Lists applicable forms including "Major Air Pollution Source Annual Emissions Fee," Statement of Compliance," and "Responsible Official Notification" forms.

Table A5-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 12 of 18)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
Chapter 62-214 F.A.C. - Requirements for Sources Subject to the Federal Acid Rain Program					
Purpose and Scope	62-214.100, F.A.C.	X			Contains no applicable requirements.
Applicability	62-214.300, F.A.C.			001, 006, 007, 008	Auburndale Energy Complex includes Acid Rain units. Therefore, facility compliance with 62-213 and 62-214, F.A.C., is required.
Applications, Renewals	62-214.320(1)(i), F.A.C.			001, 006, 007, 008	Requires Title V sources having Acid Rain unit(s) to submit an Acid Rain Renewal Application to FDEP. Operation without a Title V permit that includes an Acid Rain Part is prohibited.
Applications, Information Requirements	62-214.320(2), F.A.C.			001, 006, 007, 008	Specifies required contents of Acid Rain Part applications.
Acid Rain Compliance Plan and Compliance Options, SO_2	62-214.330(1)(a), F.A.C.			001, 006, 007, 008	Acid rain compliance plan requirements for sulfur dioxide emissions.
Acid Rain Compliance Plan and Compliance Options, NO_x	62-214.330(1)(b), F.A.C.	X			Acid rain compliance plan requirements for nitrogen oxides emissions.
Exemptions	62-214.340(2), F.A.C.			001, 006, 007, 008	Notice may be submitted for retired exemptions **(potential future requirement)**.
Certification	62-214.350(2), (3), (5), (6), F.A.C.			001, 006, 007, 008	Submittal of a copy of the Certificate of Representation form to FDEP is required. Specifies required Designated Representative (DR) certifications.

Table A5-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 13 of 18)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
Department Action on Applications	62-214.360, F.A.C.	X			FDEP application processing procedures. Contains no applicable requirements.
Revisions and Administrative Corrections	62-214.370(1), (3), (4), F.A.C.			001, 006, 007, 008	Specifies applicant permit revision requirements. **(potential future requirement)**.
Revisions and Administrative Corrections, Agency Procedures	62-214.370(2), (5), (6), and (7) F.A.C.	X			FDEP application processing procedures. Contains no applicable requirements.
Acid Rain Part Content	62-214.420, F.A.C.	X			FDEP requirements - defines content of Acid Rain Part. Contains no applicable requirements.
Implementation and Termination of Compliance Options	62-214.430, F.A.C.			001, 006, 007, 008	Defines permit activation and termination procedures. Presently not applicable to the Auburndale Energy Complex. **(potential future requirement)**.
Chapter 62-252 - Gasoline Vapor Control					
Rules for gasoline vapor control equipment	62-252, F.A.C.	X			The Auburndale Energy Complex is not located in an ozone nonattainment area or an air quality maintenance area for ozone.
Chapter 62-256, F.A.C. - Open Burning and Frost Protection Fires					
Declaration and Intent	62-256.100, F.A.C.	X			Contains no applicable requirements.
Definitions	62-256.200, F.A.C.	X			Contains no applicable requirements.

Table A5-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 14 of 18)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
Prohibitions	62-256.300, F.A.C.*		X		Prohibits certain types of open burning.
Agricultural and Silvicultural Fires	62-256.400, F.A.C. [Transferred to Division of Forestry, Chapter 5I-2]	X			Contains no applicable requirements.
Burning for Cold and Frost Protection	62-256.450, F.A.C.	X			Limited to agricultural protection.
Land Clearing	62-256.500, F.A.C.*		X		Defines allowed open burning for non-rural land clearing and structure demolition.
Industrial, Commercial, Municipal, and Research Open Burning	62-256.600, F.A.C.*		X		Prohibits industrial open burning
Open Burning allowed	62-256.700(3), (5), and (6) F.A.C.		X		Defines allowed open burning. For recreational and training purposes.
Effective Date	62-256.800, F.A.C.	X			Contains no applicable requirements.
Chapter 62-257 - Asbestos Program		X			
Chapter 62-281 - Motor Vehicle Air Conditioning Refrigerant Recovery and Recycling					
Establishes installation and proper use of motor vehicle refrigerant	62-281.100, F.A.C.	X			Requirements for the installation and proper use of motor vehicle refrigerant recycling equipment. Adopts definitions of 40 CFR Part

Table A5-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 15 of 18)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
recycling equipment.					82 with some exceptions. No vehicle maintenance involving air conditioning systems is conducted at the Auburndale Energy Complex.
Chapter 62-296 - Stationary Sources - Emission Standards					
Purpose and Scope	62-296.100, F.A.C.	X			Contains no applicable requirements
General Pollutant Emission Limiting Standard, Volatile Organic Compounds Emissions	62-296.320(1), F.A.C.		X		Known and existing vapor control devices must be applied as required by the Department.
General Pollutant Emission Limiting Standard, Objectionable Odor Prohibited	62-296.320(2), F.A.C.*		X		Objectionable odor release is prohibited.
General Pollutant Emission Limiting Standard, Industrial, Commercial, and Municipal Open Burning Prohibited	62-296.320(3), F.A.C.*		X		Open burning in connection with industrial, commercial, or municipal operations is prohibited. **(potential future requirement)**
General Particulate Emission Limiting Standard, Process Weight Table	62-296.320(4)(a), F.A.C.	X			Auburndale Energy Complex does not have any applicable emission units. Combustion emission units are exempt per 62-296.320(4)(a)1a.
General Particulate Emission Limiting Standard, General Visible Emission Standard	62-296.320(4)(b), F.A.C.		X		Opacity limited to 20 percent, unless otherwise permitted. Test methods specified.

Table A5-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 16 of 18)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
General Particulate Emission Limiting Standard, Unconfined Emission of Particulate Matter	62-296.320(4)(c), F.A.C.		X		Reasonable precautions must be taken to prevent unconfined particulate matter emission.
New Fossil Fuel Fired Steam Generators with More Than 250 MMBtu/hr Heat Input	62-296.405(2), F.A.C.			009, 010	Required to meet applicable New Source Performance Standards (Subpart Da). See Table A5-1 for details.
Specific Emission Limiting and Performance Standards	62-296.401 through 62-296.404 and 62-296.406 through 62-296.417, F.A.C.	X			Not applicable to the Auburndale Energy Complex emission units.
Reasonably Available Control Technology (RACT) Volatile Organic Compounds (VOC) and Nitrogen Oxides (NO_x) Emitting Facilities	62-296.500 through 62-296.516, F.A.C.	X			The Auburndale Energy Complex is not located in an ozone nonattainment area or an ozone air quality maintenance area.
Reasonably Available Control Technology (RACT) - Requirements for Major VOC- and NO_x-Emitting Facilities	62-296.570, F.A.C.	X			The Auburndale Energy Complex is not located in a specified ozone nonattainment area or a specified ozone air quality maintenance area (Broward, Dade and Palm Beach Counties).
Reasonably Available Control Technology (RACT) - Lead	62-296.600 through 62-296.605, F.A.C.	X			The Auburndale Energy Complex is not located in a lead nonattainment area or a lead air quality maintenance area.
Reasonably Available Control Technology (RACT)—Particulate Matter	62-296.700 through 62-296.712, F.A.C.	X			The Auburndale Energy Complex is not located in a PM nonattainment area or a PM air quality maintenance area.

Table A5-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 17 of 18)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
Chapter 62-297, Stationary Sources - Emissions Monitoring					
Purpose and Scope	62-297.100, F.A.C.	X			Contains no applicable requirements.
General Test Requirements	62-297.310, F.A.C.			001, 006, 007, 008, 009, 010	Specifies general compliance test requirements including the number of runs, operating rates, emission rate calculation, applicable test procedures, determination of process variables, required stack sampling facilities, frequency of tests, and content of test reports.
Standards for Visible Emissions Observations	62-297.320(1), F.A.C.			001, 006, 007, 008, 009, 010	Specifies training and certification requirements for persons conducting the opacity of visible emissions.
Compliance Test Methods	62-297.401, F.A.C.		X		List methods to be used for compliance testing.
Supplementary Test Procedures	62-297.440, F.A.C.		X		Contains other test procedures adopted by reference.
EPA VOC Capture Efficiency Test Procedures	62-297.450, F.A.C.	X			Not applicable to the Auburndale Energy Complex.
EPA CEMS Performance Specifications	62-297.520(1), (2), and (3) F.A.C.			001, 006, 007, 008, 009, 010	Contains 40 CFR Part 60 performance specifications for NO_x and O_2 continuous emissions monitoring. CEMS meeting 40 CFR Part 75 requirements may be used in lieu of 40 CFR Part 60 requirements.
Exceptions and Approval of Alternate Procedures and	62-297.620, F.A.C.			001, 006, 007, 008,	Exceptions or alternate testing procedures may

Table A5-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 18 of 18)
Auburndale Energy Complex

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
Requirements				009, 010	be requested. **(optional future requirement).**
Chapter 5I-2, Open Burning Rule					
Definitions	5I-2.003, F.A.C.	X			Contains no applicable requirements.
Open Burning Not Allowed	5I-2.004, F.A.C.		X		Prohibits certain types of open burning.
Open Burning Allowed	5I-2.006, F.A.C.		X		Requirements for agricultural, silvicultural, and rural land clearing open burning.

*State requirement only; not federally enforceable.
Source: ECT, 2007.

ATTACHMENT A-6

COMPLIANCE REPORT AND PLAN/ COMPLIANCE CERTIFICATION

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)

■ Annual Requirement	☐ Transfer of Permit	☐ Permanent Facility Shutdown

REPORTING PERIOD*	REPORT DEADLINE**
January 1 through December 31 of 2006 (year)	March 1, 2007

*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: Auburndale Power Partners, L.P., Auburndale Peaker Energy Center, LLC, Calpine Construction Finance Company, LP

Site Name: Auburndale Energy Complex Facility ID No. 1050221 County: Polk

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.

X **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.

R J Callery — 2 28 07

(Signature of Title V Source Responsible Official) *(Date)*

Name: Robert Callery 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.

R Callery — 2 28 07

(Signature of Acid Rain Source Designated Representative) *(Date)*

Name: Robert Callery 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).}

2006 Annual Statement of Compliance
Attachment

Permit Requirement Excursions

1. EU001
2. Section III (A.1)
3. The maximum heat input to the combustion turbine (CT) shall not exceed 1214 MMBtu/hr as determined using a lower heating value (LHV) at International Standards Organization (ISO) conditions while firing natural gas.
4. Data Review
5. Over 2006
6. In 2002 the facility amended its permit to allow for wet compression operation at ambient conditions greater than or equal to 60 degrees Fahrenheit. The Technical Determination associated with the permit modification provides a review of the anticipated increase of heat input associated with the operation of wet compression. A comparison of actual operating data and the Technical Determination data (modified to meet the permitted capacity limit at ISO) indicates that 665 hours of actual 2006 wet compression operating data averages ~1% greater than anticipated. This variation is within the 2% accuracy of the fuel meters. The agency has been verbally notified of this potential issue and the facility continues to work to identify the correct heat input curve over wet compression operation. Upon identification of the appropriate ambient conditions vs. heat input curve, the facility will provide the agency a formal follow-up to this issue.
7. 2/28/07

1. EU006
2. Section III (C.1)
3. The maximum heat input to the combustion turbine from firing natural gas shall not exceed 1591 MMBtu/hr based on the following: 100% base load, a higher heating value (HHV) for natural gas and a compressor inlet air temperature of 32 degrees Fahrenheit. Ambient condition curves were provided to the agency after the initial compliance tests.
4. Data Review
5. Over 2006
6. A review of operating hours indicates that 20 hours of actual 2006 data averages ~1% greater than the provided curve. This variation is within the 2% accuracy of the fuel meters. The agency has been verbally notified of this potential issue and the facility continues to work to identify the correct heat input curve. Upon identification of the appropriate ambient conditions vs. heat input curve (or associated equation), the facility will provide the agency a formal follow-up to this issue.
7. 2/28/07

1. EU007; EU009
2. Section III (D.1)
3. The maximum heat input rates, based on the lower heating value (LHV) of the fuel to this Unit at ISO conditions shall not exceed 1,699 MMbtu/hr when firing natural gas without power augmentation. Ambient condition curves were provided to the agency after the initial compliance tests.
4. Data Review
5. Over 2006
6. A review of operating hours when power augmentation was not in operation indicates a potential excursion of the initially submitted curve of 415 hours for EU007 and 777

hours for EU009. The average potential curve excursion is ~2% for EU007 and ~3% for EU009. The agency has been verbally notified of this potential issue and the facility continues to work to identify the correct heat input curve. Upon identification of the appropriate ambient conditions vs. heat input curve (or associated equation), the facility will provide the agency a formal follow-up to this issue.

7. 2/28/07

1. EU007-EU010
2. Section III (D.24)-2005 PSD permit modification was not carried through to this section
3. CO compliance tests will be completed at 100% capacity with the duct burners off.
4. Test Review
5. Over 2006
6. The facility amended its PSD permit in 2005 to allow for annual CO testing to be completed with Duct Burners and Power Augmentation on. At that time the PSD equivalent of D.21 was modified to strike the statement that testing must be completed at 100% load with duct burners and power augmentation off. However, Condition D.24 was not updated to reflect this modification. The facility believes that 2006 testing was completed in compliance with the Department's intent and only reports this deviation as a matter of good practice. This over sight will be corrected as part of the 2007 permit renewal.
7. 6/20/06

Emissions Excursions

EU1

1. Excess Emissions Report: Quarter 1, 2007
2. Report provides information regarding NOx Excess Emission.

EU6

1. Excess Emissions Report: Quarter 1, 2007
2. Report provides information regarding NOx Excess Emission.

EU008/010

1. Excess Emissions Report: Quarter 1, 2007
2. Report provides information regarding NH3 Excess Emission.

CALPINE

AUBURNDALE ENERGY COMPLEX

Auburndale Power Partners, LP
1501 West Derby Avenue
Auburndale, FL 33823

Auburndale Peaker Energy Center, LLC
1501 West Derby Avenue
Auburndale, FL 33823

Osprey Energy Center
1561 West Derby Avenue
Auburndale, FL 33823

June 4, 2007

Bill Schroeder
Air Division
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Parkway
Temple Terrace, Fl. 33637
Phone: 813-632-7600

RE: Update to 2006 Title V Certification and District Notification
Auburndale Energy Complex
Title V Permit No.: 1050221-009 AV
Federal Express No.: 8595 3579 5251

During a review of annual operating data for the completion of the Auburndale Energy Complex 2006 Title V Certification, the facility identified a potential compliance issue related to the permitted capacity (adjusted heat input limits). Upon identification of this potential issue, the District office was notified and the potential issue was identified in the 2006 Title V Certification. This letter is intended to provide the Department with an updated compliance determination for each unit.

Cogen Unit (EU001)

Permit Condition A.1.- Permitted Capacity. The maximum heat input to the combustion turbine (CT) shall not exceed 1214 MMBtu/hr as determined using a lower heating value (LHV) at International Standards Organization (ISO) conditions while firing natural gas and 1170 MMBtu/hr as determined using LHV at ISO conditions while firing No. 2 distillate fuel oil.

An initial hard copy correction curve was attached to the initial Title V permit for dry operation of the turbine. Dry operation is defined as operation with no wet compression. The following correction equation has been associated with this curve:

$$HIc = HIm / [1.1794 - 0.003 * CIT] \qquad \textit{(Curve A)}$$

HIc-Heat input corrected to permitted condition (LHV at 59°F CIT)
HIm-Measured heat input
CIT-Compressor Inlet Temperature

In 2006 no excursions of the dry curve occurred. Therefore, no further action is anticipated.

In 2002 the facility modified its permit to allow for the use of wet compression during any period in which the ambient temperature is above 60 degrees F on natural gas. Wet operation is defined as operation with wet compression. An anticipated heat input curve based on ambient temperature (dry) was submitted as part of the permit application. However, no updated maximum correction curve was submitted. The facility has since created a correction curve based on the data submitted as part of the application. The following correction equation has been associated with this curve:

*HIc =HIm / [1.0201-0.0003*Ambient]* *(Curve B)*

HIc-Heat input corrected to permitted condition (LHV at 59°F CIT)
HIm-Measured heat input
Ambient-Ambient Dry Temperature Fahrenheit

In 2006 32 hours of wet operation exceeded the permitted capacity when corrected via Curve B. A review of actual operating data indicates an initial permitting error. Upon identification of this error the facility commenced a permit modification project that is intended to be submitted to the Department by July 5, 2007. Until such modification is finalized, the unit will comply with Curve B at the permitted capacity limit.

In addition to the above, 29 hours of wet compression were identified to have been operated when ambient temperatures were below 60F. This was due to a programming error. This error has been corrected.

No known emissions excursions were a result of the excess capacity.

Peaker Unit (EU006)

Permit Condition C.1.- Permitted Capacity. The maximum heat input to the combustion turbine from firing natural gas shall not exceed 1591 MMBtu/hr based on the following: 100% base load, a higher heating value (HHV) for natural gas and a compressor inlet temperature of 32F. The maximum heat input to the combustion turbine from firing No. 2 fuel oil shall not exceed 1546 MMBtu/hr based on the following: 100% base load and a compressor inlet temperature of 32F. Heat input rates will vary depending upon ambient conditions and the combustion turbine characteristics.

Upon completion of initial stack testing the facility submitted hard copy correction curves to the Department for both natural gas and distillate oil. The initial natural gas curve was based on ambient temperature and not CIT. The following correction has been associated with the initially submitted natural gas curve:

*HIc=HIm / (1.0518-(0.0016*Ambient))* *(Curve C)*

HIc-Heat input corrected to permitted condition (HHV at 32°F CIT)
HIm-Measured heat input
Ambient-Ambient Dry Temperature Fahrenheit

In 2006 27 hours of natural gas operation exceeded the permitted capacity when corrected via Curve C. Upon identification of this issue the facility reviewed actual operating data, determined that the correction curves for both natural gas and distillate oil should be the same, and created a single updated correction curve for both. The updated correction curve is attached as Attachment A. The following correction equation has been associated with this curve:

*HIc=HIm / (1.07562528-0.00236339*CIT)* *(Curve D)*

HIc-Heat input corrected to permitted condition (HHV at 32F CIT)
HIm-Measured heat input
CIT-Compressor Inlet Temperature

In addition, the review of actual operating data revealed the maximum heat input provided by the vendor was low and did not accurately reflect the actual turbine installed. This data does not reflect a change or increase in operation. Upon identification of this error the facility commenced a permit modification project that is intended to be submitted to the Department by July 5, 2007. Until such modification is finalized, the unit will comply with the updated correction curve (Curve D) at the permitted capacity limit.

No known emissions excursions were a result of the excess capacity.

Osprey Energy Center Units (EU007 and 8)

Permit Condition D.1.- Combustion Turbine Capacity. The maximum heat input rates, based on the lower heating value (LHV) of the fuel to this Unit at ISO conditions shall not exceed 1,669 million Btu per hour (mmbtu/hr) when firing natural gas without power augmentation. The maximum heat input rate will vary depending upon ambient conditions and combustion turbine characteristics. Manufacturer's curves corrected for site conditions or equations for correction to other ambient conditions shall be provided to the Department of Environmental Protection (DEP) within 45-day of completing the initial compliance testing.

Upon completion of initial stack testing the facility submitted hard copy correction curves to the Department for operation without power augmentation. The initial natural gas curve was based on ambient temperature and not CIT. Curves E and F have been created to define the initially submitted correction curve.

*HIc =HIm / [1.14269434-0.00241855*Ambient]* *(Curve E)*

HIc-Heat input corrected to permitted condition (LHV at ISO)
HIm-Measured heat input
Ambient-Ambient Dry Temperature Fahrenheit < 59F

*HIc =HIm / [1.07839092-0.00132748*Ambient]* *(Curve F)*

HIc-Heat input corrected to permitted condition (LHV at ISO)
HIm-Measured heat input
Ambient-Ambient Dry Temperature Fahrenheit ≥59F

In 2006 478 and 786 hours (Units 7 and 8, respectively) of natural gas operation exceeded the permitted capacity when corrected via Curves E and F. Review of engineering standards and actual operating data, determined that the correction curves should be based on CIT and updated to match actual operating data. The updated correction curve is attached as Attachment B. The following correction equation has been associated with this curve:

*HIc =HIm / [1.1317731 – 0.0022334*CIT]* *(Curve G)*

HIc-Heat input corrected to permitted condition (LHV at ISO)
HIm-Measured heat input
CIT-Compressor Inlet Temperature

In addition, the review of actual operating data revealed the maximum heat input provided by the vendor was low and did not accurately reflect the actual turbine installed. This data does not reflect a change or increase in operation. Upon identification of this error the facility to commenced a permit modification project that is intended to be submitted to the Department by July 5, 2007. Until such modification is finalized, the unit will comply with the updated correction curve (Curve G) at the permitted capacity limit.

No known emissions excursions were a result of the excess capacity.

In conclusion the facility has implemented the following actions to address these events and ensure no further excursions occur:

- Analyzed historical data to identify a permitting error for wet compression on Unit 1. Facility commenced a permit modification project that is intended to be submitted to the Department by July 5, 2007 and will comply with Curve B at the permitted capacity limit until such modification is finalized.
- Analyzed historical data to identify appropriate unit specific correction curves for Units 6, 7, and 8. Facility will comply with the updated curves (Curves D and G).

- Analyzed historical data of Units 6, 7 and 8 to identify a permitting an error with the maximum heat input provided by the vendor. The maximum heat input provided was low and did not accurately reflect the actual turbine installed. This data does not reflect a change or increase in operation. Facility commenced a permit modification project that is intended to be submitted to the Department by July 5, 2007 and will comply with the permitted capacity limits until such modification is finalized.
- Programmed electronic monitoring systems to identity potential excursions of current permit limits.

If you have any further questions or require additional information, please feel free to contact Heidi Whidden at (713) 570-4829.

Sincerely,

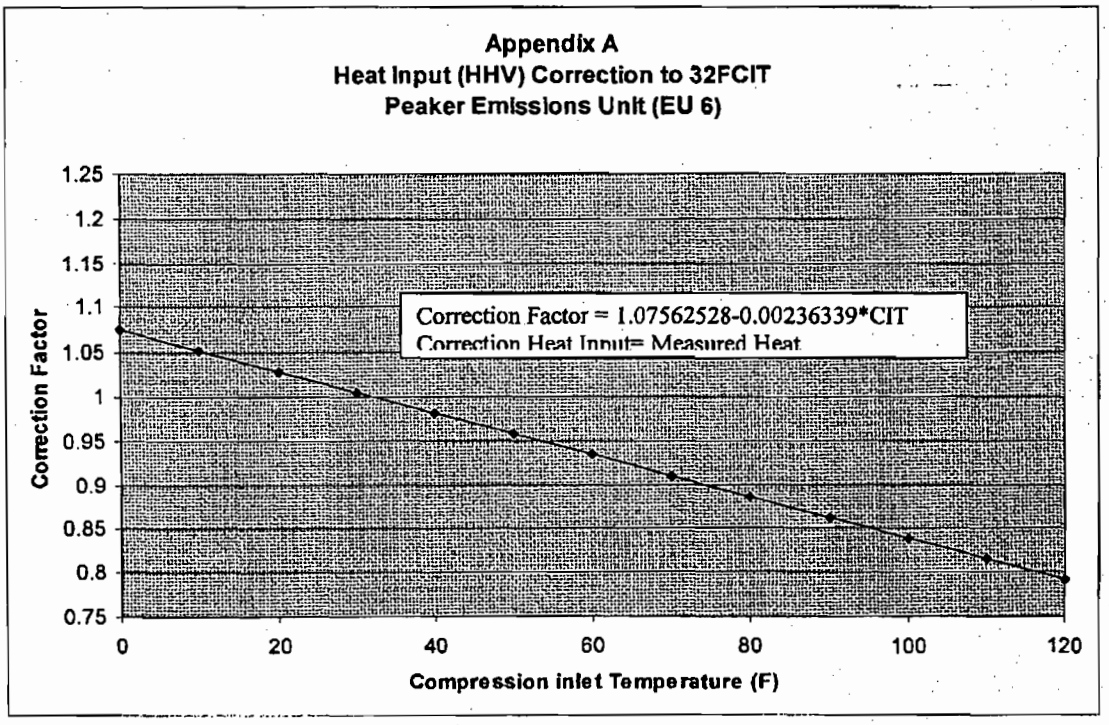
Calpine Operating Services Company, Inc.

RW B Callery

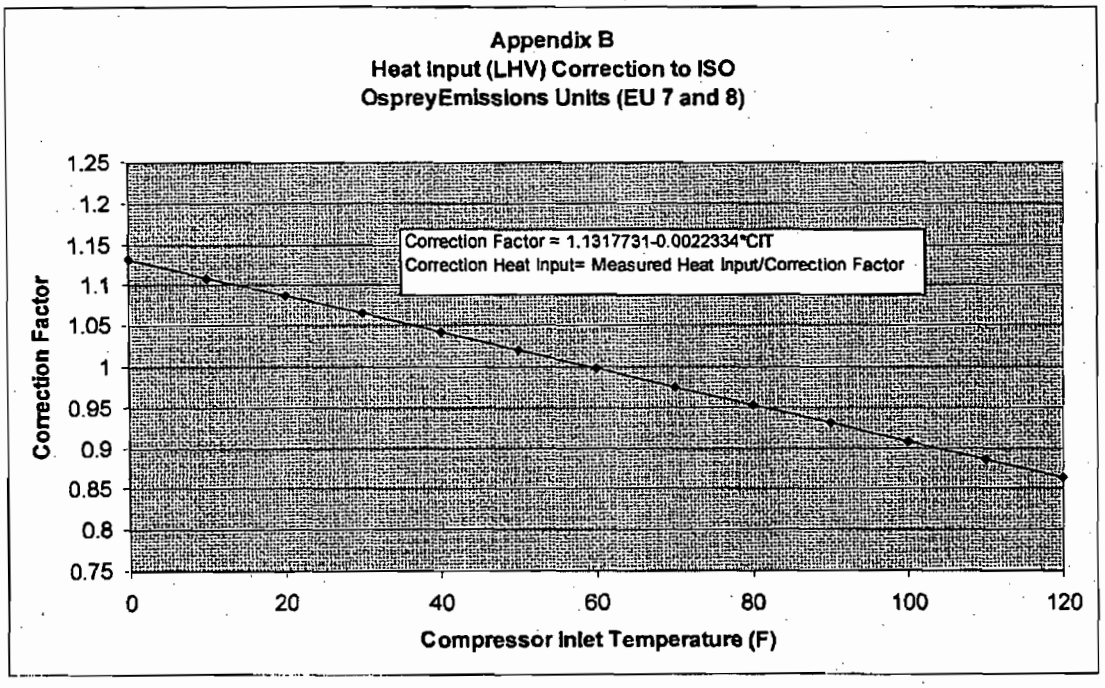
Bob Callery
General Manger

Attachments (2)

To: Bill Schroeder
Re: Update to 2006 Title V Certification and District Notification
Auburndale Energy Complex; Title V Permit No.: 1050221-009 AV



To: Bill Schroeder
Re: Update to 2006 Title V Certification and District Notification
Auburndale Energy Complex; Title V Permit No.: 1050221-009 AV



ATTACHMENT A-7

REQUESTED CHANGES TO CURRENT TITLE V AIR OPERATION PERMIT

ATTACHMENT A-7

AUBURNDALE ENERGY COMPLEX

REQUESTED CHANGES TO CURRENT TITLE V AIR OPERATION PERMIT

The following summarizes the requested changes to the current Title V air operation permit at Auburndale Energy Complex, 1050221-009-AV:

Facility Information

- Section I, Subsection A. Facility Description

  Revise *Auburndale Operating Services Company Inc.* to *Calpine Operating Services Company Inc.*

Application Information

- No requested changes.

EU 001—Combined Cycle Unit–Auburndale Power Partners LP

- Revise Permit Condition A.1 to read as follows:

  The maximum heat input to the combustion turbine shall not exceed 1,214 MMBtu/hr as determined using a lower heating value (LHV) at International Standards Organization (ISO) conditions while firing natural gas *with the wet compression system off (dry operation) or 1,364 MMBtu/hr LHV at ISO conditions while firing natural gas with the wet compression system in operation* and 1,170 MMBtu/hr as determined using a LHV at ISO conditions while firing No. 2 distillate fuel oil.

- Revise Permit Condition A.8.a to read:

  a. while firing natural gas:
  15 ppmvd @ 15% O_2, 24-hour block average (see note #1).
  9 ppmvd @ 15% O_2, 12-month rolling equivalent average.
  78.6 lbs./hour (see note #2).
  177 TPY, 12-month rolling total; combined total of natural gas and distillate fuel oil firing (see note #2 and #4).

- Revise Permit Condition A.8.b to read:

  b. while firing distillate fuel oil:
  42 ppmvd @ 15% O_2, 24-hour block average (see note #1).
  230.0 lbs./hour (see note #2).
  46 TPY (see note #2).
  177 TPY, 12-month rolling total; combined total of natural gas and distillate fuel oil firing (see note #2 and #4).

- Permit Condition A.23 to read:

  The owner or operator shall determine compliance with the sulfur content standard of 0.05 percent, by weight, as follows: ASTM D129-91; D1552-90; D2280-71; D2280-96; D2622-92; D4292; D4294-90; D5453; or the latest edition(s), or in accordance with approved 40 CFR Part 75 methods, shall be used to determine the sulfur content of liquid fuels and ASTM D1072-80, 90, 94; D3031-81, 86; D3246-81, 92; D4084-82, 94; D4468-85; D5504-94; or the latest edition(s) or in accordance with approved 40 CFR Part 75 methods, shall be used to determine the sulfur content of gaseous fuels (incorporated by reference-see 40 CFR 60.17). The applicable ranges ....

- Permit Condition A.25 to read:

  Compliance with the VOC standard shall be demonstrated using EPA Method 25A or 18, if needed. Testing is only required prior to the Title V renewal.

- Permit Condition A.29.a to read:

  This emissions unit shall operate between 90% and 100% of permitted capacity during the compliance test(s) as adjusted for compressor inlet temperature. (See attached ....)

- Add the following permit condition:

  CEMS Data Exclusion—Combustor Tuning. CEMS data collected during initial or other major combustor tuning sessions shall be excluded from the CEMS compliance demonstration provided the tuning session is performed in accordance with the manufacturer's specifications. 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 session, the permittee shall provide the Department's Southwest District Compliance Authority with an advance notice that details the activity and proposed tuning schedule. The notice may be by telephone, facsimile transmittal, or electronic mail. [Rule: 62-4.070(3), F.A.C.]

EU 002—Fuel Oil Storage Tanks (2)

- This emissions unit is no longer subject to New Source Performance Standard for Storage Tank, 40 CFR Part 60 Subpart Kb, effective October 15, 2003. This emissions unit has no applicable requirements and therefore should be listed under Appendix U-1, List of Unregulated Emissions Units and/or Activities.

EU 006—Simple Cycle Unit–Auburndale Peaker Energy Center LLC

- Revise Permit Condition C.1. Permitted Capacity. to read:

  The maximum heat input to the combustion turbine from firing natural gas shall not exceed 1,776 MMBtu/hr based on the following: 100% base load, a higher heating value (HHV) for natural gas and a compressor inlet air temperature of 32 °F. The maximum heat input to the combustion turbine from firing No. 2 fuel oil shall not exceed 1,726 MMBtu/hr based on the following: 100% base load and a compressor inlet air temperature of 32 °F. Heat input rates will vary depending upon ambient conditions and the combustion turbine characteristics.

- Delete Permit Condition C.3.2 Wet Compression System as this operation no longer is applicable. Please delete all other references to wet compression system for EU 006.

- Revise Permit Condition C.8.c. to read:

  Unit Total:
  115 TPY, 12-month rolling total.

- Revise Permit Condition C.10a to read:

  10 ppmvd @ 15% O2 @ base load, 24-hour average

- Revise Permit Condition C.26 to read:

  a. CO (ppmvd) emissions shall not exceed the specified emissions limits based on a 24-hour block average for data collected from the CEMS.
  b. No change
  c. An annual RATA test is not required if fuel oil is burned for no more than 400 hours per year.

- Revise Permit Condition C.29 as follows:

  Beginning with second sentence – Permitted capacity is defined as 90-100 percent of the maximum heat input rate allowed by permit (per the approved maximum heat input correction curve) corrected for the average compressor inlet air temperature during the test. If it is impractical to test at permitted capacity, the source may be tested at less than permitted capacity. However, subsequent operation is limited by adjusting the entire heat input vs. compressor inlet air

temperature curve downward by an increment equal to the difference between the maximum permitted heat input (corrected for compressor inlet air temperature) and 110 percent of the value reached during the test until a new test is conducted. Once the unit is so limited....

- Revise Permit Condition C.33.a.2. to read:

  During each federal fiscal year (October 1 – September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for visible emissions (VE). For each CEMS, the permittee shall conduct annual RATAs in accordance with the regulations of 40 CFR 75 for NOx and Performance Specification 4 or 4A for CO. [ref: 1050221-010-AC]

- Add the following Permit Condition:

  CEMS Data Exclusion—Combustor Tuning. CEMS data collected during initial or other major combustor tuning sessions shall be excluded from the CEMS compliance demonstration provided the tuning session is performed in accordance with the manufacturer's specifications. 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 session, the permittee shall provide the Department's Southwest District Compliance Authority with an advance notice that details the activity and proposed tuning schedule. The notice may be by telephone, facsimile transmittal, or electronic mail. [Rule: 62-4.070(3), F.A.C.]

EU 007/008/009/010—Combined Cycle Units with Duct Burners – Calpine Construction Finance Company LP (Osprey Energy Center)

- Revise Permit Condition D.1, 1st sentence to read:

  The maximum heat input rates, based on the lower heating value (LHV) of the fuel to this unit at ISO conditions shall not exceed 1,875 million Btu per hour (mmBtu/hr) when firing natural gas without power augmentation.

- Revise Permit Condition D.7, to read:

  Emissions of CO in the stack exhaust gas (at ISO conditions) with the combustion turbine operating on gas shall not exceed neither 10 ppmvd @ 15% O2 on a 24-hour block average to be demonstrated by CEMS for those days when no valid hour includes the use of duct burner firing, power augmentation or operation below 30% excluding periods of startup and shutdown nor 17 ppmvd @ 15% O2 on a 24-hour block average for those days when at least one valid hour includes the use of duct burner firing, power augmentation or operation below 30% excluding periods of startup and shutdown to be demonstrated by CEMS. Annual stack testing using Method 10 or through annual RATA testing shall be conducted

at 100% load with duct burner firing and power augmentation on. No other additional stack testing is required.

[ref: FDEP letter to Mr. Benjamin M. H. Borsch, P.E. dated July 5, 2005]

- Revise Permit Condition D.21 to add the following bullet item:

  EPA Reference Method 25a and 18, if needed "Determination of Volatile Organic Concentrations"

  [ref: FDEP letter to Mr. Benjamin M. H. Borsch, P.E. dated July 5, 2005 and 1050221-010-AC]

- Revise Permit Condition D.24., 1st sentence to read:

  An annual test for CO shall be conducted at 100% capacity with the duct burners and power augmentation on.

- Revise Permit Condition D.30., 5th bullet, 1st sentence to read:

  Ammonia emissions shall be calculated continuously, except during periods of startup and shutdown, using inlet and outlet NOx concentrations from the SCR system and ammonia flow supplied to the SCR system.

  [ref: 1050221-010-AC]

- Add the following permit condition:

  CEMS Data Exclusion—Combustor Tuning. CEMS data collected during initial or other major combustor tuning sessions shall be excluded from the CEMS compliance demonstration provided the tuning session is performed in accordance with the manufacturer's specifications. 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 session, the permittee shall provide the Department's Southwest District Compliance Authority with an advance notice that details the activity and proposed tuning schedule. The notice may be by telephone, facsimile transmittal, or electronic mail. [Rule: 62-4.070(3), F.A.C.]

EU 011—Cooling Tower–Calpine Construction Finance Company LP (Osprey Energy Center)

- Delete Permit Condition E.4.

ATTACHMENT A-8

FUEL ANALYSIS OR SPECIFICATIONS

ATTACHMENT A-8A

Typical Natural Gas Composition

Component	Percent (by volume)
Gas Composition	
Hexane+	0.05
Propane	0.40
I-butane	0.09
N-butane	0.10
Pentane	0.06
Nitrogen	0.44
Methane	96.00
CO_2	0.88
Ethane	2.15
Other Characteristics	
Heat content	1,035 Btu/ft^3 with 14.73 psia, dry
Specific gravity	0.587
Sulfur content (maximum)	1.0 gr/100 scf

Note: Btu/ft^3 = British thermal units per cubic foot.
psia = pounds per square inch absolute.
gr/100 scf = grains per 100 standard cubic foot.

Source: ECT, 2007.

ATTACHMENT A-8B

Typical No. 2 Fuel Oil Analysis

Parameter	Value
Density, lb/gal (average)	7.05
Heat of combustion, Btu/lb (average)	
Gross	19,398
Net	18,300
Hydrogen, percent by weight (average)	12.65
Carbon, percent by weight (average)	87.10
Nitrogen, percent by weight (average)	0.02
Ash, percent by weight (maximum)	0.01
Sulfur, percent by weight (maximum)	0.05
Trace constituents, ppm	
Sodium	<0.1
Vanadium	<0.1
Potassium	<0.1
Lead	<0.1
Calcium	<0.1
Magnesium	<0.1

Note: Btu/lb = British thermal units per pound.
lb/gal = pounds per gallon.
ppm = parts per million.

Source: ECT, 2007.

ATTACHMENT A-9

DETAILED DESCRIPTION OF CONTROL EQUIPMENT

ATTACHMENT A-9

AUBURNDALE ENERGY COMPLEX

DETAILED DESCRIPTION OF CONTROL EQUIPMENT

The APP combined-cycle unit (EU001) is equipped with steam injection and selective catalytic reduction (SCR) technologies. The APEC simple-cycle unit is equipped with steam injection. The OEC combined-cycle units are each equipped with dry low-NO_x (DLN) combustor and SCR technologies to control NO_x emissions. The OEC heat recovery steam generators (HRSGs) duct burners (DBs) are equipped with low NO_x burners (LNB) Descriptions of these NO_x control technologies are provided in the following section.

Dry Low-NO_x Combustor Design

A number of turbine vendors have developed DLN combustors that premix turbine fuel and air prior to combustion in the primary zone. Use of a premix burner results in a homogeneous air/fuel mixture without an identifiable flame front. For this reason, the peak and average flame temperatures are the same, causing a decrease in thermal NO_x emissions in comparison to a conventional diffusion burner. A typical DLN combustor incorporates fuel staging using several operating modes as follows:

- Primary Mode—Fuel supplied to first stage only at turbine loads from 0 to 35 percent. Combustor burns with a diffusion flame with quiet, stable operation. This mode is used for ignition, warm-up, acceleration, and low-load operation.
- Lean-Lean Mode—Fuel supplied to both stages with flame in both stages at turbine loads from 35 to 50 percent. Most of the secondary fuel is premixed with air. Turbine loading continues with a flame present in both fuel stages. As load is increased, CO emissions will decrease, and NO_x levels will increase. Lean-lean operation will be maintained with increasing turbine load until a preset combustor fuel-to-air ratio is reached when transfer to premix operation occurs.
- Secondary Mode (Transfer to Premix)—At 70-percent load, all fuel is supplied to second stage.
- Premix Mode—Fuel is provided to both stages with approximately 80 percent furnished to the first stage at turbine loads from 70 to 100 percent. Flame is present in the second stage only.

Currently, premix burners are limited in application to natural gas and loads above approximately 35 to 50 percent of baseline due to flame stability considerations.

In addition to lean premixed combustion, CT DLN combustors typically incorporate lean combustion and reduced combustor residence time to reduce the rate of NO_x formation. All CTs cool the high-temperature CT exhaust gas stream with dilution air to lower the exhaust gas to an acceptable temperature prior to entering the turbine. By adding additional dilution air, the hot CT exhaust gases are rapidly cooled to temperatures below those needed for NO_x formation. Reduced residence time combustors add the dilution air sooner than do standard

combustors. The amount of thermal NO_x is reduced because the CT combustion gases are at a higher temperature for a shorter period of time.

Selective Catalytic Reduction

SCR technology is used to control NO_x emissions from the OEC combined cycle units. SCR reduces NO_x emissions by reacting ammonia (NH_3) with exhaust gas NO_x to yield nitrogen and water vapor in the presence of a catalyst. NH_3 is injected upstream of the catalyst bed where the following primary reactions take place:

$$4NH_3 + 4NO + O_2 \rightarrow 4N_2 + 6H_2O \quad (1)$$

$$4NH_3 + 2NO_2 + O_2 \rightarrow 3N_2 + 6H_2O \quad (2)$$

The catalyst serves to lower the activation energy of these reactions, which allows the NO_x conversions to take place at a lower temperature (i.e., in the range of 600 to 750°F). Typical SCR catalysts include metal oxides (titanium oxide and vanadium), noble metals (combinations of platinum and rhodium), zeolite (alumino-silicates), and ceramics.

Reaction temperature is critical for proper SCR operation. The optimum temperature range for conventional SCR operation is 600 to 750°F. Below this temperature range, reduction reactions (1) and (2) will not proceed. At temperatures exceeding the optimal range, oxidation of NH_3 will take place resulting in an increase in NO_x emissions. Due to these temperature constraints, the SCR catalyst modules are located in the appropriate section of the HRSGs where temperatures are suitable for proper SCR operation.

A NH_3 injection grid is located in the HRSG downstream of the high pressure steam drum and upstream of the SCR catalyst modules. This injection grid is utilized to inject anhydrous ammonia into the CT exhaust stream. The NH_3 and NO_x (i.e., NO and NO_2) in the exhaust stream is then adsorbed on the surface of the SCR catalyst and react catalytically to form N_2 and H_2O per reactions (1) and (2) above. The N_2 and H_2O formed is subsequently desorbed and discharged to the atmosphere with the CT exhaust stream.

The reaction of NO_x with NH_3 theoretically requires a 1:1 molar ratio. NH_3/NO_x molar ratios greater than 1:1 are necessary to achieve high-NO_x removal efficiencies due to imperfect mixing and other reaction limitations. However, NH_3/NO_x molar ratios are typically maintained at 1:1 or lower to prevent excessive unreacted NH_3 (ammonia slip) emissions. The OEC SCR control systems are designed to achieve an ammonia slip rate of no more than 9.0 ppmvd at 15 percent O_2 over a 3-hour block average.

ATTACHMENT A-10

PROCEDURES FOR STARTUP AND SHUTDOWN

ATTACHMENT A-10

AUBURNDALE ENERGY COMPLEX

PROCEDURES FOR STARTUP AND SHUTDOWN COMBUSTION TURBINE (CT) AND HEAT RECOVERY STEAM GENERATOR (HRSG)

STARTING SEQUENCE

Startup of the Siemens Westinghouse 501FD2 combustion turbine (CT) is implemented by means of a computer controlled startup sequencer. The startup sequencer is given a START command by the control room operator. The startup sequencer then controls startup and synchronization of the CT to the power grid while the control room operator monitors the CT startup and other plant processes.

SHUTDOWN SEQUENCE

CT shutdown occurs in a similar fashion as startup. Shutdown of the Siemens Westinghouse 501FD2 CT is implemented by means of a computer controlled shutdown sequencer. The shutdown sequencer is given a STOP command by the control room operator. The shutdown sequencer then reduces CT load, disconnects the CT from the power grid (opens the generator breaker), closes the fuel supply to the CT, and allows the CT to cool in a controlled manner. Once the CT has cooled sufficiently, the CT is allowed to coast until rotation stops. The CT will automatically go on turning gear.

ATTACHMENT A-11

ACID RAIN PART—AUBURNDALE COGENERATION FACILITY

ECT
Environmental Consulting & Technology, Inc.

Acid Rain Part Application

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

This submission is: ☐ New ■ Revised

STEP 1
Identify the source by plant name, State, and ORIS code

Plant Name Auburndale Cogeneration Facility	State Florida	ORIS Code 54658

STEP 2

Enter the unit ID# for every Acid Rain unit at the Acid Rain source in column "a." For new units, enter the requested information in columns "c" and "d."

a Unit ID#	b Unit will hold allowances in accordance with 40 CFR 72.9(c)(1)	c New Units Commence Operation Date	d New Units Monitor Certification Deadline
1	Yes		
6	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		

Plant Name (from Step 1) Auburndale Cogeneration Facility

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 Department 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 Department; 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.

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 Department:
(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,

STEP 3, Cont'd.

Plant Name (from Step 1) Auburndale Cogeneration Facility

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, 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 72.7or 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

Read the certification statement, sign, and date

Certification

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.

Name Jason Goodwin	
Signature	Date 7/2/07

ATTACHMENT A-12

ACID RAIN PART—OSPREY ENERGY CENTER

Acid Rain Part Application

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

This submission is: ☐ New ■ Revised

STEP 1
Identify the source by plant name, State, and ORIS code

Plant Name Osprey Energy Center	State Florida	ORIS Code 55412

STEP 2

Enter the unit ID# for every Acid Rain unit at the Acid Rain source in column "a." For new units, enter the requested information in columns "c" and "d."

a Unit ID#	b Unit will hold allowances in accordance with 40 CFR 72.9(c)(1)	c New Units Commence Operation Date	d New Units Monitor Certification Deadline
CT1	Yes		
CT2	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		

Plant Name (from Step 1) Osprey Energy Center

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 Department 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 Department; 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.

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 Department:
(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,

Plant Name (from Step 1) Osprey Energy Center

STEP 3, Cont'd.

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.

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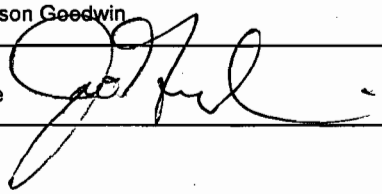
Name Jason Goodwin	
Signature 	Date 7/2/07