

Memorandum

Florida Department of Environmental Protection

TO: Trina Vielhauer, Bureau of Air Regulation
THROUGH: Jon Holtom, Title V Section *JH*
FROM: Tom Cascio *Tom*
DATE: September 1, 2010
SUBJECT: Air Construction Permit Modification No. 1050334-009-AC
Initial Draft/Proposed Permit No. 1050334-008-AV
Auburndale Peaker Energy Center/Osprey Energy Center

Attached for your review are the following items:

- Written Notice of Intent to Issue Air Permits;
- Public Notice of Intent to Issue Air Permits;
- Technical Evaluation and Preliminary Determination;
- Draft Air Construction Permit Modification;
- Statement of Basis;
- Initial Draft/Proposed Title V Air Operation Permit; and,
- P.E. Certification.

This permitting action is the second part of the separation of the former Auburndale Energy Complex into two Title V facilities. The Statement of Basis provides a summary of the project and the rationale for issuance. The P.E. certification briefly summarizes the proposed project.

The application was received on April 23, 2010. A request for additional information (RAI) was sent on June 7, 2010. A response was received on June 29, 2010, which made the application complete. Day 90 is September 27, 2010. I recommend your approval of the attached initial draft/proposed Title V air operation permit and air construction permit modification.

Attachments

P.E. CERTIFICATION STATEMENT

PERMITTEE

Calpine Corporation
717 Texas Avenue, Suite 1000
Houston, Texas 77002

Permit No. 1050334-008-AV
Permit No. 1050334-009-AC
Facility ID No. 1050334
Auburndale Peaker Energy Center/
Osprey Energy Center
Initial Title V Air Operation Permit
Air Construction Permit Modification
Polk County, Florida

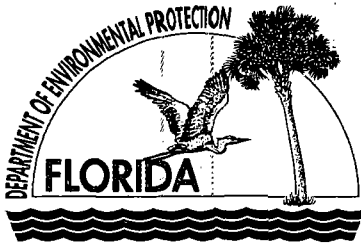
PROJECT DESCRIPTION

The main purpose of this project is to issue an initial Title V air operation permit as part of the process of separating the complex into two facilities following the legal transfer of portions of the facility to the Calpine Corporation. An air construction permit modification is also included to authorize revisions to air construction permits 1050221-004-AC and PSD-FL-287 related to continuous emissions monitoring and data requirements requested by the applicant.

***I HEREBY CERTIFY** that the air pollution control engineering features described in the above referenced application and subject to the proposed permit conditions provide reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-4 and 62-204 through 62-297. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including, but not limited to, the electrical, mechanical, structural, hydrological, geological, and meteorological features).*

This review was conducted by Tom Cascio under my responsible supervision.


Jonathan K. Holton, P.E.
Registration Number: 0052664
Date: 8/24/10

Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

Electronic Mail – Received Receipt Requested.

Mr. Jason Goodwin, Director – Environmental, Health and Safety
Calpine Corporation
717 Texas Avenue, Suite 1000
Houston, Texas 77002

Re: Initial Title V Air Operation Permit No. 1050334-008-AV
Air Construction Permit Modification No. 1050334-009-AC
Auburndale Peaker Energy Center/Osprey Energy Center

Dear Mr. Goodwin:

Enclosed is the draft/proposed permit package to issue an air construction permit modification and initial Title V air operation permit for the Auburndale Peaker Energy Center/Osprey Energy Center facility complex. The facility is located at 1651 West Derby Avenue, Auburndale, Florida, in Polk County. The permit package includes the following documents:

- The Technical Evaluation and Preliminary Determination, which establishes the basis for approving the requested changes made in the construction permit modification.
- The Statement of Basis, which summarizes the facility, the equipment, the primary rule applicability, and the changes included in this initial Title V permit.
- The draft construction permit modification and the draft/proposed initial Title V air operation permit, which includes the specific permit conditions that regulate the emissions units covered by the proposed project.
- The Written Notice of Intent to Issue Air Permits provides important information regarding: the Permitting Authority's intent to issue air permits for the proposed project; the requirements for publishing a Public Notice of the Permitting Authority's intent to issue air permits; the procedures for submitting comments on the draft/proposed permits; the process for filing a petition for an administrative hearing; and the availability of mediation.
- The Public Notice of Intent to Issue Air Permits is the actual notice that you must have published in the legal advertisement section of a newspaper of general circulation in the area affected by this project. The Public Notice of Intent to Issue Title V Air Permits must be published as soon as possible and the original proof of publication affidavit must be provided to the Department within seven days of the date of publication.

If you have any questions, please contact the Project Engineer, Tom Cascio by telephone at (850) 921-9526 or by email at tom.cascio@dep.state.fl.us.

Sincerely,

Trina L. Vielhauer, Chief
Bureau of Air Regulation

9/3/10

Date

Enclosures
TLV/jkh/tbc

**WRITTEN NOTICE OF INTENT TO ISSUE INITIAL TITLE V AIR OPERATION PERMIT AND AIR
CONSTRUCTION PERMIT MODIFICATION**

In the Matter of an

Application for Air Construction Permit Modification and Initial Title V Air Operation Permit by:

Calpine Corporation
717 Texas Avenue, Suite 1000
Houston, Texas 77002

Responsible Official:

Mr. Jason Goodwin, Director – Environmental,
Health and Safety

Permit No. 1050334-008-AV
Permit No. 1050334-009-AC
Facility ID No. 1050334
Auburndale Peaker Energy Center/Osprey
Energy Center
Initial Title V Air Operation Permit
Air Construction Permit Modification
Polk County, Florida

Facility Location: Calpine Corporation operates the existing Auburndale Peaker Energy Center/Osprey Energy Center, which is located in Polk County at 1651 West Derby Avenue, Auburndale, Florida.

Project: The main purpose of this project is to issue an initial Title V air operation permit to separate the complex into two facilities for permitting purposes. An air construction permit modification is included to authorize revisions to specific conditions of air construction permits 1050221-004-AC and PSD-FL-287 related to continuous emissions monitoring and data requirements. Specifically, the language concerning (1) valid hourly emission rates, (2) certification of oxygen monitors, (3) operating day definition, and (4) cold start up definition was adjusted. The initial Title V air operation permit incorporates these changes. Details of the project are provided in the application and the enclosed Statement of Basis.

Permitting Authority: Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210 and 62-212 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work.

Applications for Title V air operation permits for facilities that contain Acid Rain units are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210, 62-213 and 62-214 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and a Title V air operation permit is required to operate the facility. The Bureau of Air Regulation is the Permitting Authority responsible for making a permit determination for this project. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite #4, Tallahassee, Florida. The Permitting Authority's mailing address is: 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400. The Permitting Authority's telephone number is 850/488-0114.

Project File: A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at the address indicated above for the Permitting Authority. The complete project file includes the Technical Evaluation And Preliminary Determination, the draft/proposed permits, the Statement of Basis, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may view the draft permits by visiting the following website: <http://www.dep.state.fl.us/air/emission/apds/default.asp> and entering the permit number shown above. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address or phone number listed above.

Notice of Intent to Issue Permits: The Permitting Authority gives notice of its intent to issue an air construction permit modification to the applicant for the project described above. The applicant has provided reasonable assurance that operation of the proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297,

WRITTEN NOTICE OF INTENT TO ISSUE INITIAL TITLE V AIR OPERATION PERMIT AND AIR CONSTRUCTION PERMIT MODIFICATION

F.A.C. The Permitting Authority will issue a final permit in accordance with the conditions of the proposed draft air construction permit modification unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S. or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

The Permitting Authority gives notice of its intent to issue an initial Title V air operation permit to the applicant for the project described above. The applicant has provided reasonable assurance that continued operation of the existing equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-214, 62-296 and 62-297, F.A.C. The Permitting Authority will issue a final initial permit in accordance with the conditions of the draft/proposed initial permit unless a response received in accordance with the following procedures results in a different decision or a significant change of terms or conditions.

Public Notice: Pursuant to Section 403.815, F.S. and Rules 62-110.106 and 62-210.350, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue Air Permits (Public Notice). The Public Notice shall be published one time only as soon as possible in the legal advertisement section of a newspaper of general circulation in the area affected by this project. The newspaper used must meet the requirements of Sections 50.011 and 50.031, F.S. in the county where the activity is to take place. If you are uncertain that a newspaper meets these requirements, please contact the Permitting Authority at the above address or phone number. Pursuant to Rule 62-110.106(5) and (9), F.A.C., the applicant shall provide proof of publication to the Permitting Authority at the above address within 7 days of publication. Failure to publish the notice and provide proof of publication may result in the denial of the permit pursuant to Rule 62-110.106(11), F.A.C.

Comments: The Permitting Authority will accept written comments concerning the draft air construction permit modification for a period of 14 days from the date of publication of the Public Notice. Written comments must be received by the Permitting Authority by close of business (5:00 p.m.) on or before the end of this 14-day period. If written comments received result in a significant change to the draft air construction permit modification, the Permitting Authority shall revise the draft air construction permit modification and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

The Permitting Authority will accept written comments concerning the draft/proposed initial Title V air operation permit for a period of 30 days from the date of publication of the Public Notice. Written comments must be received by the close of business (5:00 p.m.), on or before the end of this 30-day period by the Permitting Authority at the above address. As part of his or her comments, any person may also request that the Permitting Authority hold a public meeting on this permitting action. If the Permitting Authority determines there is sufficient interest for a public meeting, it will publish notice of the time, date, and location in the Florida Administrative Weekly (FAW). If a public meeting is requested within the 30-day comment period and conducted by the Permitting Authority, any oral and written comments received during the public meeting will also be considered by the Permitting Authority. If timely received written comments or comments received at a public meeting result in a significant change to the draft/proposed permit, the Permitting Authority shall issue a revised draft/proposed initial permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection. For additional information, contact the Permitting Authority at the above address or phone number.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the applicant or any of the parties listed below must be filed within 14 days of receipt of this Written Notice of Intent to Issue Air Permit. Petitions filed by any persons

WRITTEN NOTICE OF INTENT TO ISSUE INITIAL TITLE V AIR OPERATION PERMIT AND AIR CONSTRUCTION PERMIT MODIFICATION

other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the attached Public Notice or within 14 days of receipt of this Written Notice of Intent to Issue Air Permit, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner; the name, address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of when and how each petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Written Notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation: Mediation is not available in this proceeding.

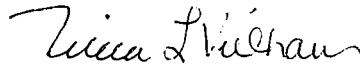
EPA Review: EPA has agreed to treat the draft/proposed initial Title V air operation permit as a proposed initial Title V air operation permit and to perform its 45-day review provided by the law and regulations concurrently with the public comment period. Although EPA's 45-day review period will be performed concurrently with the public comment period, the deadline for submitting a citizen petition to object to the EPA Administrator will be determined as if EPA's 45-day review period is performed after the public comment period has ended. The final Title V air operation permit will be issued after the conclusion of the 45-day EPA review period so long as no adverse comments are received that result in a different decision or significant change of terms or conditions. The status regarding EPA's 45-day review of this project and the deadline for submitting a citizen petition can be found at the following website address: <http://www.epa.gov/region4/air/permits/Florida.htm>.

Objections: Finally, pursuant to 42 United States Code (U.S.C.) Section 7661d(b)(2), any person may petition the Administrator of the EPA within 60 days of the expiration of the Administrator's 45-day review period as established at 42 U.S.C. Section 7661d(b)(1), to object to the issuance of any Title V air operation permit. Any petition shall be based only on objections to the permit that were raised with reasonable specificity during the 30-day public comment period provided in the Public Notice, unless the petitioner demonstrates to the Administrator of the EPA that it was impracticable to raise such objections within the comment period or unless the grounds for

**WRITTEN NOTICE OF INTENT TO ISSUE INITIAL TITLE V AIR OPERATION PERMIT AND AIR
CONSTRUCTION PERMIT MODIFICATION**

such objection arose after the comment period. Filing of a petition with the Administrator of the EPA does not stay the effective date of any permit properly issued pursuant to the provisions of Chapter 62-213, F.A.C. Petitions filed with the Administrator of EPA must meet the requirements of 42 U.S.C. Section 7661d(b)(2) and must be filed with the Administrator of the EPA at: U.S. EPA, 401 M Street, S.W., Washington, D.C. 20460. For more information regarding EPA review and objections, visit EPA's Region 4 web site at <http://www.epa.gov/region4/air/permits/Florida.htm>.

Executed in Tallahassee, Florida.



Trina L. Vielhauer, Chief
Bureau of Air Regulation

**WRITTEN NOTICE OF INTENT TO ISSUE INITIAL TITLE V AIR OPERATION PERMIT AND AIR
CONSTRUCTION PERMIT MODIFICATION**

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Written Notice of Intent to Issue an Air Construction Permit Modification and an Initial Title V Air Operation Permit (including the Public Notice, the Statement of Basis, and the Draft Air Construction Permit Modification and Draft/Proposed Initial Title V Air Operation Permit), or a link to these documents available electronically on a publicly accessible server, was sent by electronic mail with received receipt requested before the close of business on 9/8/10 to the persons listed below.

Mr. Jason Goodwin, Director – Environmental, Health and Safety, Calpine Corporation: jgoodwin@calpine.com

Ms. Cindy Zhang-Torres, Southwest District Office: cindy.zhang-torres@dep.state.fl.us

Mr. Thomas W. Davis, P.E., Environmental Consulting and Technology, Inc.: tdavis@ectinc.com

Ms. Katy Forney, U.S. EPA Region 4: forney.kathleen@epa.gov

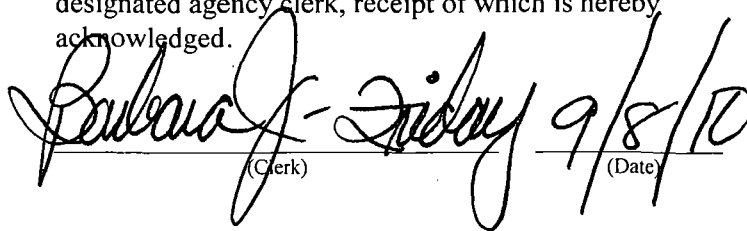
Ms. Ana Oquendo, EPA Region 4: oquendo.ana@epa.gov

Ms. Barbara Friday, DEP - BAR: barbara.friday@dep.state.fl.us (for posting with U.S. EPA, Region 4)

Ms. Victoria Gibson, DEP - BAR: victoria.gibson@dep.state.fl.us (for reading file)

Clerk Stamp

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


(Clerk) 9/8/10 (Date)

**PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT MODIFICATION AND
INITIAL TITLE V AIR OPERATION PERMIT**

Florida Department of Environmental Protection
Division of Air Resource Management, Bureau of Air Regulation
Draft Air Construction Permit Modification No. 1050334-009-AC
Draft/Proposed Initial Air Operation Permit No. 1050334-008-AV
Calpine Corporation, Auburndale Peaker Energy Center/Osprey Energy Center
Polk County, Florida

Applicant: The applicant for this project is the Calpine Corporation. The applicant's responsible official and mailing address are: Mr. Jason Goodwin, Director – Environmental, Health and Safety, Calpine Corporation, 717 Texas Avenue, Suite 1000, Houston, Texas 77002.

Facility Location: The applicant operates the existing Auburndale Peaker Energy Center/Osprey Energy Center, which is located in Polk County at 1651 West Derby Avenue, Auburndale, Florida.

Project: On April 23, 2010, the applicant submitted an application for an initial Title V air operation permit reflecting the separation of the complex into two different facilities for permitting purposes based on the sale of portions of the facility to the Calpine Corporation. On June 29, 2010, in response to a Department request for additional information letter, the applicant revised the initial application to include modifications to previously issued air construction permits 1050221-004-AC and PSD-FL-287 related to continuous emissions monitoring and data requirements. Specifically, the language concerning (1) valid hourly emission rates, (2) certification of oxygen monitors, (3) operating day definition, and (4) cold start up definition was adjusted.

Permitting Authority: Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210 and 62-212 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Bureau of Air Regulation is the Permitting Authority responsible for making a permit determination for this project.

Applications for Title V air operation permits for facilities that contain Acid Rain units are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210, 62-213 and 62-214 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and a Title V air operation permit is required to operate the facility. The Bureau of Air Regulation is the Permitting Authority responsible for making a permit determination for this project. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite #4, Tallahassee, Florida. The Permitting Authority's mailing address is: 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400. The Permitting Authority's telephone number is 850/488-0114.

Project File: A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at the address indicated above for the Permitting Authority. The complete project file includes the draft air construction permit modification, the draft/proposed initial air operation permit, the Statement of Basis, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may view the draft air construction permit modification and draft/proposed initial air operation permit by visiting the following website: <http://www.dep.state.fl.us/air/emission/apds/default.asp> and entering the permit numbers shown above. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address or phone number listed above.

Notice of Intent to Issue Permits: The Permitting Authority gives notice of its intent to issue an air construction permit modification to the applicant for the project described above. The applicant has provided reasonable assurance that operation of proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297, F.A.C. The Permitting Authority will issue a final permit in accordance with the conditions of the draft air construction permit modification unless a timely petition for an administrative hearing is filed under Sections

(Public Notice to be Published in the Newspaper)

**PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT MODIFICATION AND
INITIAL TITLE V AIR OPERATION PERMIT**

120.569 and 120.57, F.S. or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

The Permitting Authority gives notice of its intent to issue an initial Title V air operation permit to the applicant for the project described above. The applicant has provided reasonable assurance that continued operation of the existing equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-214, 62-296 and 62-297, F.A.C. The Permitting Authority will issue a final permit in accordance with the conditions of the draft/proposed initial permit unless a response received in accordance with the following procedures results in a different decision or a significant change of terms or conditions.

Comments: The Permitting Authority will accept written comments concerning the draft air construction permit modification for a period of 14 days from the date of publication of the Public Notice. Written comments must be received by the Permitting Authority by close of business (5:00 p.m.) on or before the end of this 14-day period. If written comments received result in a significant change to the draft air construction permit modification, the Permitting Authority shall revise the draft air construction permit modification and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

The Permitting Authority will accept written comments concerning the draft/proposed initial Title V air operation permit for a period of 30 days from the date of publication of the Public Notice. Written comments must be received by the close of business (5:00 p.m.), on or before the end of this 30-day period by the Permitting Authority at the above address. As part of his or her comments, any person may also request that the Permitting Authority hold a public meeting on this permitting action. If the Permitting Authority determines there is sufficient interest for a public meeting, it will publish notice of the time, date, and location in the Florida Administrative Weekly (FAW). If a public meeting is requested within the 30-day comment period and conducted by the Permitting Authority, any oral and written comments received during the public meeting will also be considered by the Permitting Authority. If timely received written comments or comments received at a public meeting result in a significant change to the draft/proposed initial permit, the Permitting Authority shall issue a revised draft/proposed initial permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection. For additional information, contact the Permitting Authority at the above address or phone number.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S. must be filed within 14 days of publication of the Public Notice or receipt of a written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address and telephone number of the petitioner; the name address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial rights will

PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT MODIFICATION AND INITIAL TITLE V AIR OPERATION PERMIT

be affected by the agency determination; (c) A statement of when and how the petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Public Notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation: Mediation is not available for this proceeding.

EPA Review: EPA has agreed to treat the draft/proposed initial Title V air operation permit as a proposed initial Title V air operation permit and to perform its 45-day review provided by the law and regulations concurrently with the public comment period. Although EPA's 45-day review period will be performed concurrently with the public comment period, the deadline for submitting a citizen petition to object to the EPA Administrator will be determined as if EPA's 45-day review period is performed after the public comment period has ended. The final initial Title V air operation permit will be issued after the conclusion of the 45-day EPA review period so long as no adverse comments are received that results in a different decision or significant change of terms or conditions. The status regarding EPA's 45-day review of this project and the deadline for submitting a citizen petition can be found at the following website address:
<http://www.epa.gov/region4/air/permits/Florida.htm>.

Objections: Finally, pursuant to 42 United States Code (U.S.C.) Section 7661d(b)(2), any person may petition the Administrator of the EPA within 60 days of the expiration of the Administrator's 45-day review period as established at 42 U.S.C. Section 7661d(b)(1), to object to the issuance of any Title V air operation permit. Any petition shall be based only on objections to the permit that were raised with reasonable specificity during the 30-day public comment period provided in the Public Notice, unless the petitioner demonstrates to the Administrator of the EPA that it was impracticable to raise such objections within the comment period or unless the grounds for such objection arose after the comment period. Filing of a petition with the Administrator of the EPA does not stay the effective date of any permit properly issued pursuant to the provisions of Chapter 62-213, F.A.C. Petitions filed with the Administrator of EPA must meet the requirements of 42 U.S.C. Section 7661d(b)(2) and must be filed with the Administrator of the EPA at: U.S. EPA, 401 M Street, S.W., Washington, D.C. 20460. For more information regarding EPA review and objections, visit EPA's Region 4 web site at <http://www.epa.gov/region4/air/permits/Florida.htm>.

**TECHNICAL EVALUATION
AND
PRELIMINARY DETERMINATION**

Auburndale Peaker Energy Center/Osprey Energy Center
Air Construction Permit Modification
Polk County

DEP File No. 1050334-009-AC



Florida Department of Environmental Protection
Division of Air Resource Management
Bureau of Air Regulation
Title V Section

September 1, 2010

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

1. GENERAL PROJECT INFORMATION

Applicant Name and Address

Calpine Corporation
717 Texas Avenue, Suite 1000
Houston, Texas 77002

Authorized Representative:

Mr. Jason Goodwin, Director – Environmental, Health and Safety

Processing Schedule

June 29, 2010: Air construction permit modification application was received and deemed complete.

Facility Description and Location

The plant complex consists of a combination of simple cycle and combined cycle combustion turbines. The nominal generating capacity of the complex is 660 megawatts (MW). The facility is located at 1651 West Derby Avenue, Auburndale, Florida, in Polk County.

Major Regulatory Categories

Title III: The facility is not a major source of hazardous air pollutants (HAP).

Title IV: The facility operates units subject to the acid rain provisions of the Clean Air Act.

Title V: The facility is a Title V major source of air pollution in accordance with Chapter 62-213, Florida Administrative Code (F.A.C.).

PSD: The facility is a Prevention of Significant Deterioration (PSD)-major source of air pollution in accordance with Rule 62-212.400, F.A.C.

NSPS: The facility operates units subject to the New Source Performance Standards (NSPS) of 40 Code of Federal Regulations (CFR) 60.

NESHAP: The facility operates units subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) of 40 CFR 63.

Power Plant Siting: The facility is subject to power plant site certification.

Proposed Project

Applicable Regulations.

This permit modification revises specific conditions of air construction permits 1050221-004-AC and PSD-FL-287 related to *continuous emissions monitoring and data requirements* as described in the concluding section below. Primarily, the language concerning (1) valid hourly emission rates, (2) certification of oxygen monitors, (3) operating day definition, and (4) cold start up definition was adjusted.

2. REGULATIONS THAT APPLY TO THE PROJECT

State Regulations

This project is subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The Florida Statutes authorize the Department of Environmental Protection to establish rules and regulations regarding air quality as part of the Florida Administrative Code (F.A.C.). This project is subject to the applicable rules and regulations defined in the following Chapters of the Florida Administrative Code. These include: 62-4 (Permitting Requirements); 62-204 (Ambient Air Quality Requirements, PSD Increments, and Federal Regulations Adopted by Reference); 62-210 (Permits

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

Required, Public Notice, Reports, Stack Height Policy, Circumvention, Excess Emissions, and Forms); 62-212 (Preconstruction Review, PSD Review and BACT); 62-296 (Emission Limiting Standards); and 62-297 (Test Methods and Procedures, Continuous Monitoring Specifications, and Alternate Sampling Procedures).

3. PSD APPLICABILITY FOR PROJECT AND CONCLUSION

This permit modification revises specific conditions of air construction permits 1050221-004-AC and PSD-FL-287 related to *continuous emissions monitoring and data requirements*. Specifically, the language concerning (1) valid hourly emission rates, (2) certification of oxygen monitors, (3) operating day definition, and (4) cold start up definition was adjusted. Clarifications were also made to definitions for two, three and four hour hourly time spans in terms of minutes. Details of the changes follow below. Note: Double underline indicates additions and ~~strikethrough~~ indicates deletions.

Requested Change 1.

- The applicant requested the following change to Specific Condition 31. of 1050221-004-AC:

31. Continuous Emissions Monitoring System:

... Compliance with the emissions limits for NO_x shall be based on a 24-hour block average starting at midnight of each operating day. The 24-hour block average shall be calculated from 24 valid hourly average emission rate values. A valid hourly emission rate shall be calculated for each hour in which at least two measurements are obtained at least 15-minutes apart. ...

- Department response: This change is acceptable because it is consistent with New Source Performance Standards (NSPS) Subpart A.

Requested Change 2.

- The applicant requested the following changes to Specific Condition 32. of 1050221-004-AC:

32. Certification:

... The NO_x and O₂ monitor shall be certified pursuant to 40 CFR Part 75 and shall be operated and maintained in accordance with the applicable requirements of 40 CFR Part 75 Subpart B and C. ... ~~The O₂ monitor shall be certified pursuant to 40 CFR 60, Appendix B, Performance Specification 3.~~

- Department response: This change is acceptable since the O₂ analyzer is subject to the Acid Rain/CAIR rules and subsequently to 40 CFR Part 75.

Requested Change 3.

- The applicant requested the following changes to Specific Condition 33. of 1050221-004-AC:

33. NO_x/CO CEMS Data Requirements:

NO_x, CO and O₂ emissions data shall be recorded by the CEM system during episodes of startup, shutdown and malfunction. No valid monitoring data shall be excluded from the mass-based (TPY) CO and NO_x emissions limits. Monitoring data collected during startup, shutdown and malfunctions may be excluded in accordance with the following conditions when determining compliance with concentration-based (ppmvd) CO and NO_x emissions limits. NO_x and CO emissions data recorded during these episodes may be excluded from the 24-hour block average calculated to demonstrate compliance with the emission limits of this permit as provided in this paragraph. Periods of data excluded for startup and shutdown shall not exceed two hours (120 minutes) in any ~~block 24-hour period~~ operating day. Periods of data excluded for malfunctions shall not exceed two hours (120 minutes) in any ~~24-hour block period~~ operating day. All periods of data excluded for any startup, shutdown or malfunction episode shall be consecutive for each episode. Periods of data excluded for all startup, shutdown or malfunction episodes

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

shall not exceed four hours (240 minutes) in any ~~24-hour block period~~ operating day. An operating day is defined as a day (midnight to midnight) that contains operation. The owner or operator shall minimize the duration of data excluded for startup, shutdown and malfunctions, to the extent practicable. Data recorded during startup, shutdown or malfunction events shall not be excluded if the startup, shutdown or malfunction episode was caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure, which may reasonably be prevented.

- Department response: These changes are acceptable since startup, shutdown and malfunction exclusions apply daily, and not on a *rolling* 24-hour period. In addition, these exclusions can be treated on a minute basis.

Requested Change 4.

- The applicant requested the following change to Specific Condition 25. of PSD-FL-287:

25. Excess Emissions:

... Excess emission occurrences shall in no case exceed 2 hours (120 minutes) in any ~~24-hour period~~ operating day permitted except during both "cold start-up" to, and shutdowns from, combined cycle operation. During cold start-up to combined cycle operation, up to four hours (240 minutes) of excess emissions are allowed. During shutdowns from combined cycle operation, up to three hours (180 minutes) of excess emissions are allowed. Cold startup is defined as start-up to combined cycle operation following ~~a complete shutdown lasting at least 48 hours~~ breaker open of the combustion turbine with no operation above 60% load in the interim for a minimum of 48-hours (2880 minutes). An operating day is defined as a day (midnight to midnight) that contains operation.

- Department response: These changes are acceptable since the exclusions apply daily and the data can be treated on a minute basis. The applicant reported that the more complete definition of cold shutdown described above was discussed with Department officials earlier and found acceptable.

This project has no affect on actual or potential pollutant emissions levels from the Auburndale Peaking Energy Center/Osprey Energy Center since the changes are clarifications to the original air construction permits. Based on this determination, the project constitutes a non-major modification with respect to the Department's rules and requires a construction permit modification to implement.

PERMITTEE

Calpine Corporation
717 Texas Avenue, Suite 1000
Houston, Texas 77002

Auburndale Peaker Energy Center/Osprey Energy Center	
DEP File No.	1050334-009-AC
SIC No.	4911
Expires:	December 31, 2010

Authorized Representative:

Mr. Jason Goodwin, Director – Environmental, Health
and Safety

PROJECT

This permit modification revises certain specific conditions of air construction permits 1050221-004-AC and PSD-FL-287 that authorized the original construction of the Auburndale Peaker Energy Center and the Osprey Energy Center, respectively. The plant complex consists of a combination of simple cycle and combined cycle combustion turbines. The nominal generating capacity of the complex is 660 megawatts (MW). The plant site is located at 1651 West Derby Avenue, Auburndale, Florida, in Polk County. The reference Universal Transverse Mercator (UTM) Coordinates are Zone 17, 420.8 kilometers (km) East and 3103.3 km North.

This final permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements); Section 3 (Emissions Unit Specific Conditions).

STATEMENT OF BASIS

This air pollution construction permit modification is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.) and Title 40, Parts 60 and 63 of the Code of Federal Regulations (CFR). The permittee is authorized to install the proposed equipment in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department.

Upon issuance of this final permit, any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000) and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within 30 days after this order is filed with the clerk of the Department.

(Draft)

Joseph Kahn, Director
Division of Air Resource Management

(Date)

SECTION 1. GENERAL INFORMATION

FACILITY AND PROJECT DESCRIPTION

Existing Facility

The Calpine Corporation is the owner of the two existing power plants that comprise the Auburndale Peaker Energy Center and the Osprey Energy Center complex. The plants consist of a combination of simple cycle and combined cycle combustion turbines. The nominal generating capacity of the complex is 660 megawatts (MW). The facility is located at 1651 West Derby Avenue, Auburndale, Florida, in Polk County.

006	Nominal 120 megawatt (MW) simple cycle combustion turbine-electrical generator set
007	Nominal 170 MW combined cycle combustion turbine-electrical generator set*
008	Nominal 170 MW combined cycle combustion turbine-electrical generator set*
009	Heat recovery steam generator (HRSG) equipped with 250 million British thermal units (MMBtu) per hour gas-fired duct burner system*
010	HRSG equipped with 250 MMBtu per hour gas-fired duct burner system*

*Emissions Units 007 – 010 comprise a nominal 540 MW combined cycle unit consisting of two combustion turbines, two HRSG with duct burner systems, and one shared nominal 200 MW steam-electrical generator set.

Proposed Project

This permit modification revises certain specific conditions of air construction permits 1050221-004-AC and PSD-FL-287 related to continuous emissions monitoring certification and data requirements at the plant complex. Details are provided in the project's Technical Evaluation and Preliminary Determination document.

REGULATORY CLASSIFICATION

Title III: The facility is not a major source of hazardous air pollutants (HAP).

Title IV: The facility operates units subject to the acid rain provisions of the Clean Air Act.

Title V: The facility is a Title V major source of air pollution in accordance with Chapter 62-213, Florida Administrative Code (F.A.C.).

PSD: The facility is a Prevention of Significant Deterioration (PSD)-major source of air pollution in accordance with Rule 62-212.400, F.A.C.

NSPS: The facility operates units subject to the New Source Performance Standards (NSPS) of 40 Code of Federal Regulations (CFR) 60.

NESHAP: The facility operates units subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) of 40 CFR 63.

Power Plant Siting: The facility is subject to power plant site certification.

RELEVANT DOCUMENTS

The following relevant documents are not a part of this permit, but helped form the basis for this permitting action: the permit application and the Technical Evaluation and Preliminary Determination.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The Permitting Authority for this project is the Bureau of Air Regulation in the Division of Air Resource Management of the Department. The mailing address for the Bureau of Air Regulation is 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Department's Southwest District Office. The mailing address and phone number of the Southwest District Office are: 13051 N. Telecom Parkway, Temple Terrace, Florida 33637, Telephone: 813/632-7600, Fax: 813/632-7665.
3. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-214, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
4. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]
5. Modifications: No emissions unit shall be constructed or modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]

SECTION 3. EMISSIONS UNITS SPECIFIC CONDITIONS

Units 006, 007, 008, 009 and 010

The specific conditions in this section apply to the following emissions units (EU):

EU No.	Brief Description
006	Nominal 120 megawatt (MW) simple cycle combustion turbine-electrical generator set
007	Nominal 170 MW combined cycle combustion turbine-electrical generator set
008	Nominal 170 MW combined cycle combustion turbine-electrical generator set
009	Heat recovery steam generator (HRSG) equipped with 250 million British thermal units (MMBtu) per hour gas-fired duct burner system
010	HRSG equipped with 250 MMBtu per hour gas-fired duct burner system

1. Other Permits. Except as listed below, all other conditions of existing permits remain in effect and unchanged.

This permit modification revises certain specific conditions of air construction permits 1050221-004-AC and PSD-FL-287. Note: Double underline indicates additions and ~~strike through~~ indicates deletions.

2. Specific Condition 31 of 1050221-004-AC is changed as follows:

31. Continuous Emissions Monitoring System:

... Compliance with the emissions limits for NO_x shall be based on a 24-hour block average starting at midnight of each operating day. The 24-hour block average shall be calculated from 24 valid hourly average emission rate values. A valid hourly emission rate shall be calculated for each hour in which at least two measurements are obtained at least 15-minutes apart. ...

3. Specific Condition 32 of 1050221-004-AC is changed as follows:

32. Certification:

... The NO_x and O₂ monitor shall be certified pursuant to 40 CFR Part 75 and shall be operated and maintained in accordance with the applicable requirements of 40 CFR Part 75 Subpart B and C. ... ~~The O₂ monitor shall be certified pursuant to 40 CFR 60, Appendix B, Performance Specification 3.~~

4. Specific Condition 33 of 1050221-004-AC is changed as follows:

33. NO_x/CO CEMS Data Requirements:

NO_x, CO and O₂ emissions data shall be recorded by the CEM system during episodes of startup, shutdown and malfunction. No valid monitoring data shall be excluded from the mass-based (TPY) CO and NO_x emissions limits. Monitoring data collected during startup, shutdown and malfunctions may be excluded in accordance with the following conditions when determining compliance with concentration-based (ppmvd) CO and NO_x emissions limits. NO_x and CO emissions data recorded during these episodes may be excluded from the 24-hour block average calculated to demonstrate compliance with the emission limits of this permit as provided in this paragraph. Periods of data excluded for startup and shutdown shall not exceed two hours (120 minutes) in any ~~block 24-hour period~~ operating day. Periods of data excluded for malfunctions shall not exceed two hours (120 minutes) in any ~~24-hour block period~~ operating day. All periods of data excluded for any startup, shutdown or malfunction episode shall be consecutive for each episode. Periods of data excluded for all startup, shutdown or malfunction episodes shall not exceed four hours (240 minutes) in any ~~24-hour block period~~ operating day. An operating day is defined as a day (midnight to midnight) that contains operation. The owner or operator shall minimize the duration of data excluded for startup, shutdown

SECTION 3. EMISSIONS UNITS SPECIFIC CONDITIONS

Units 006, 007, 008, 009 and 010

and malfunctions, to the extent practicable. Data recorded during startup, shutdown or malfunction events shall not be excluded if the startup, shutdown or malfunction episode was caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure, which may reasonably be prevented.

5. Specific Condition 25 of PSD-FL-287 is changed as follows:

25. Excess Emissions:

... Excess emission occurrences shall in no case exceed 2 hours (120 minutes) in any ~~24-hour period~~ operating day permitted except during both "cold start-up" to, and shutdowns from, combined cycle operation. During cold start-up to combined cycle operation, up to four hours (240 minutes) of excess emissions are allowed. During shutdowns from combined cycle operation, up to three hours (180 minutes) of excess emissions are allowed. Cold startup is defined as start-up to combined cycle operation following ~~a complete shutdown lasting at least 48 hours~~ breaker open of the combustion turbine with no operation above 60% load in the interim for a minimum of 48-hours (2880 minutes). An operating day is defined as a day (midnight to midnight) that contains operation.

STATEMENT OF BASIS

Project Information

Initial Title V Air Operation Permit No. 1050334-008-AV
Auburndale Peaker Energy Center/Osprey Energy Center
Facility ID No. 1050334

The plants are located at 1651 West Derby Avenue, Auburndale, Florida. The plant complex is owned and operated by the Calpine Corporation. The plants consist of a combination of simple cycle and combined cycle combustion turbines. The nominal generating capacity of the complex is 660 megawatts (MW).

Facility Description

The Auburndale Peaker Energy Center/Osprey Energy Center consists of the following emissions units:

EU No.	Brief Description
<i>Regulated Emissions Units</i>	
Auburndale Peaker Energy Center	
006	Nominal 120 megawatt (MW) simple cycle combustion turbine-electrical generator set
Osprey Energy Center	
007	Nominal 170 MW combined cycle combustion turbine-electrical generator set
008	Nominal 170 MW combined cycle combustion turbine-electrical generator set
009	Heat recovery steam generator (HRSG) equipped with 250 million British thermal units (MMBtu) per hour gas-fired duct burner system
010	HRSG equipped with 250 MMBtu per hour gas-fired duct burner system
<i>Unregulated Emissions Units and Activities</i>	
011	Cooling tower

The facility also operates other miscellaneous unregulated and insignificant emissions units and activities.

Regulatory Classifications

The facility is subject to the following primary regulatory classifications and applicable state regulations of the Florida Administrative Code (F.A.C.) as well as the federal New Source Performance Standards (NSPS) in the Code of Federal Regulations (CFR).

- The facility is a Title V major source in accordance with Chapter 62-213, F.A.C.
- The facility is a major stationary source pursuant to Rule 62-212.400, F.A.C., for the Prevention of Significant Deterioration (PSD).
- The facility operates units subject to Phase II of the federal Acid Rain Program.
- The facility is not a major source of hazardous air pollutants.
- The simple and combined cycle combustion turbines are regulated under the NSPS Subpart A (General Provisions) and 40 CFR 60, Subpart GG (Standards of Performance for Stationary Gas Turbines) in 40 CFR 60. The HRSG with duct burners are regulated by Subpart Da (Standards of Performance for Electric Utility Steam Generating Units).
- The facility is subject to the Clean Air Interstate Rule (CAIR) set forth in Rule 62-296.470, F.A.C.

STATEMENT OF BASIS

- The facility is subject to power plant site certification.
- Because continuous emissions monitoring system (CEMS) data are used to demonstrate compliance with the nitrogen oxides (NO_x) limits, compliance assurance monitoring (CAM) does not apply to the simple cycle turbine.
- Although selective catalytic reduction (SCR) systems are installed on the combined cycle units, CAM does not apply because compliance with the NO_x emission standards is demonstrated by CEMS.

Project Review

Purpose

On April 23, 2010, the applicant submitted an application for an initial Title V air operation permit reflecting the separation of the complex into two different facilities based on the sale of portions of the facility to the Calpine Corporation. This permit retains the references to the Auburndale Peaking Energy Center (one simple cycle combustion turbine-electrical generator set) and the Osprey Energy Center (two combined cycle combustion turbine-electrical generator sets) from the current "combined" Title V permit. On June 29, 2010, in response to a Department request for additional information letter, the applicant revised the initial application to include modifications to previously issued air construction permits 1050221-004-AC and PSD-FL-287 related to continuous emissions monitoring and data requirements at the facility. Specifically, the language concerning (1) valid hourly emission rates, (2) certification of oxygen monitors, (3) operating day definition, and (4) cold start up definition was adjusted.

Detailed changes to specific conditions of the existing Title V permit are noted below – ~~striketrough~~ indicates deletions of text and double underline indicated additions of text.

~~B.12.~~ A.13. CO, NO_x and O₂ CEMS. The owner or operator shall calibrate, maintain, and operate a CEMS in the exhaust stack of this emissions unit to measure and record the emissions of NO_x and CO from the emissions units, and the oxygen (O₂) content of the flue gas at the location where NO_x and CO are monitored, in a manner sufficient to demonstrate compliance with the emission limits of this permit. The CEMS shall be used to demonstrate compliance with the emission limits for NO_x and CO within this permit.

- a. The NO_x and O₂ monitor shall be certified pursuant to 40 CFR Part 75 and shall be operated and maintained in accordance with the applicable requirements of 40 CFR Part 75, Subparts B and C. Record keeping and reporting shall be conducted pursuant to 40 CFR Part 75, Subparts F and G. ~~Annual~~ Relative Accuracy Test Audit (RATA) tests required for the NO_x monitor shall be performed using EPA Method 20 or 7E in Appendix A of 40 CFR 60. The RATA tests required for the oxygen monitor shall be performed using EPA Method 3B, of Appendix A of 40 CFR 60. The span for the oxygen monitor shall not be greater than 21%. The permittee shall conduct ~~an annual~~ the RATA tests at 100% output in accordance with the applicable CEMS requirements.
- b. The CO monitor shall be certified pursuant to 40 CFR 60, Appendix B, Performance Specification 4. ~~The O₂ monitor shall be certified pursuant to 40 CFR 60, Appendix B, Performance Specification 3.~~ Quality assurance procedures shall conform to the requirements of 40 CFR 60, Appendix F, and the Data Assessment Report of section 7 shall be made each calendar quarter, and reported semi-annually to the Compliance Authority. The RATA tests required for the CO monitor shall be performed using EPA Method 10, of Appendix A of 40 CFR 60. The Method 10 analysis shall be based on a continuous sampling train, and the ascarite trap may be omitted or the interference trap of section 10.1 may be used in lieu of the silica gel and ascarite traps. The span for the CO monitor shall not be greater than 100 ppmvd corrected to 15% oxygen. ~~The RATA tests required for the oxygen monitor shall be performed using EPA Method 3B, of Appendix A of 40 CFR 60. The span for the oxygen monitor shall not be greater than 21%.~~
- c. For purposes of determining compliance with the NO_x emission limits based on a 24-hour block average,

STATEMENT OF BASIS

missing data shall not be substituted pursuant to 40 CFR 75. Instead the block average shall be determined using the remaining hourly data in the 24-hour block. However, the permittee's record keeping for the EU-006 NO_x emissions caps (tons/year) shall be in full agreement with data submitted for inclusion on EPA's Acid Rain website which includes all documented exclusions reported to the Department in a quarterly report. The permittee may exclude start up, shutdown, and Part 75 missing data from the ppmvd calculations. However, this data will need to be recorded for the tons/year calculations for netting purposes and as required by the Acid Rain website.

d. The CO, NO_x and O₂ data shall be recorded by the CEMS during episodes of startup, shutdown and malfunction. No valid monitoring data shall be excluded from the mass-based (tons/year) CO and NO_x emissions limits. Monitoring data collected during startup, shutdown and malfunctions may be excluded in accordance with the following conditions when determining compliance with concentration-based (ppmvd) CO and NO_x emissions limits. CO and NO_x emissions data recorded during these episodes may be excluded from the 24-hour block average calculated to demonstrate compliance with the emission limits of this permit as provided in this paragraph. Periods of data excluded for startup and shutdown shall not exceed two hours (120 minutes) in any ~~block 24-hour period operating day~~. Periods of data excluded for malfunctions shall not exceed two hours (120 minutes) in any ~~24-hour block period operating day~~. All periods of data excluded for any startup, shutdown or malfunction episode shall be consecutive for each episode. Periods of data excluded for all startup, shutdown or malfunction episodes shall not exceed four hours (240 minutes) in any ~~24-hour block period operating day~~. An operating day is defined as a day (midnight to midnight) that contains operation. The owner or operator shall minimize the duration of data excluded for startup, shutdown and malfunctions, to the extent practicable. Data recorded during startup, shutdown or malfunction events shall not be excluded if the startup, shutdown or malfunction episode was caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure, which may reasonably be prevented.

e. The 24-hour block averages are calculated as follows: starting at midnight of each operating day, a 24-hour block average shall be calculated from 24 valid hourly average emission rate values. Each hourly value shall be computed using at least one data point in each fifteen-minute quadrant of an hour, where the unit combusted fuel during that quadrant of an hour. Notwithstanding this requirement, an hourly value shall be computed from at least two data points separated by a minimum of 15 minutes (where the unit operates for more than one quadrant of an hour). A valid hourly emission rate shall be calculated for each hour in which at least two measurements are obtained at least 15 minutes apart. The owner or operator shall use all valid measurements or data points collected during an hour to calculate the hourly averages. All data points collected during an hour shall be, to the extent practicable, evenly spaced over the hour. If the CEMS measures concentration on a wet basis, the CEM system shall include provisions to determine the moisture content of the exhaust gas and an algorithm to enable correction of the monitoring results to a dry basis (0% moisture). Alternatively, the owner or operator may develop through manual stack test measurements a curve of moisture contents in the exhaust gas versus load for each allowable fuel, and use these typical values in an algorithm to enable correction of the monitoring results to a dry basis (0% moisture). Final results of the CEMS shall be expressed as ppmvd corrected to 15% oxygen. Monitoring data shall be excluded from the 24-hour block average for the following periods: startup, shutdown, or malfunction as defined in Rules 62-210.200 and 62-210.700, F.A.C.; when fuel is not fired in the unit; CEMS quality assurance checks; or when the CEMS is out of control.

f. For the annual (tons/year) emissions limits of CO and NO_x, measurements shall be in pounds (converted to tons) and be based on a 12-month rolling total starting at the first day of each calendar month. Each monthly total shall be calculated by adding the pounds per day for each valid operating day (all fuels) within the calendar month. This monthly total shall be combined with the emissions from the previous valid 11 calendar months and shall comprise a 12-month rolling total.

STATEMENT OF BASIS

g. Subject to EPA approval, the following alternate monitoring may be used to demonstrate compliance. When requested by the Department, the CEMS emission rates for NO_x on this unit shall be corrected to ISO conditions to demonstrate compliance with the NO_x standard established in 40 CFR 60.332. Data collected from the NO_x CEMS shall be used to report excess emissions in accordance with 40 CFR 60.334(c)(1) of NSPS, Subpart GG.

h. **CEMS Data Exclusion – Combustor Tuning.** CEMS data collected during ~~initial or other~~ major combustor tuning sessions shall be excluded from the CEMS compliance demonstration for short term emission standards provided the tuning session is performed in accordance with the manufacturer's specifications. All valid emissions data shall be used to demonstrate compliance with annual emissions caps. A "major tuning session" would occur after completion of initial construction, a combustor change-out, a major repair or maintenance to a combustor, or other similar circumstances. Prior to performing any major tuning session, the permittee shall provide the Department's Southwest District Compliance Authority with advance notice that details the activity and proposed tuning schedule. The notice shall be by telephone, facsimile transmittal, or electronic mail. [Rules 62-4.070(3), 62-212.400(PSD), F.A.C., 62-210.700(5) F.A.C. and PSD-FL-185A]

i. Note that the twelve month rolling emissions totals required to be reported for CO and NO_x do not exclude any data.

[Rules 62-4.070(3) and 62-212.400(PSD), F.A.C.; 1050221-004-AC; Subparts B, C, F and G in 40 CFR Part 75; Appendix A, B and F of 40 CFR 60; Subparts A and GG in 40 CFR 60; applicant request dated April 23, 2010; and 1050334-009-AC.]

~~C.12.~~ **B.13. Excess Emissions.** Excess emissions resulting from startup, shutdown, or malfunction shall be permitted provided that best operational practices are adhered to and the duration of excess emissions shall be minimized. Excess emissions occurrences shall in no case exceed two hours (120 minutes) in any 24-hour period operating day except during both "cold start-up" to, and shutdowns from, combined cycle plant operation. During cold start-up to combined cycle operation, up to four hours (240 minutes) of excess emissions are allowed. During shutdowns from combined cycle operation, up to three hours (180 minutes) of excess emissions are allowed. Cold start-up is defined as a startup to combined cycle operation following a complete shutdown lasting at least 48 hours breaker open of the combustion turbine with no operation above 60% load in the interim for a minimum of 48 hours (2880 minutes). An operating day is defined as a day (midnight to midnight) that contains operation. Operation below 30% output per turbine shall otherwise be limited to 2 hours in any 24-hour period. [Rule 62-210.700(3), F.A.C. and PSD-FL-287; applicant request dated April 23, 2010; and 1050334-009-AC.]

~~C.14.~~ **B.15. CO, NO_x and O₂ CEMS.** To demonstrate continuous compliance with the applicable standards, the permittee shall ~~install~~, calibrate, maintain, and operate CEMS in each stack to measure and record CO and NO_x emissions and oxygen concentration from these units.

a. NO_x and O₂ CEMS: The NO_x and O₂ monitor shall be certified pursuant to 40 CFR Part 75 and shall be operated and maintained in accordance with the applicable requirements of 40 CFR Part 75, Subparts B and C. Record keeping and reporting shall be conducted pursuant to 40 CFR Part 75, Subparts F and G. Annual RATA tests required for the NO_x monitor shall be performed using EPA Method 20 or 7E in Appendix A of 40 CFR 60. The RATA tests required for the oxygen monitor shall be performed using EPA Method 3B in Appendix A of 40 CFR 60. The span for the oxygen monitor shall not be greater than 21%. The span for the NO_x monitor shall be based on the emissions standards. The use of the missing data substitution methodology provided in Subpart D of 40 CFR 75 is not required for identifying excess NO_x emissions. Instead, periods of missing CEMS data are to be reported as monitor downtime in the excess emissions and monitoring performance report required in 40 CFR 60.7(c). As allowed for in Specific Condition B.13.,

STATEMENT OF BASIS

CEMS data collected during the following periods may be excluded from the 24-hour block average: limited startup data; limited shutdown data; and missing data as defined by 40 CFR 75. Upon request from DEP, the CEMS emission rates shall be corrected to ISO conditions to demonstrate compliance with the applicable standards listed within this permit and established in 40 CFR 60.332.

b. ~~CO and Oxygen CEMS~~: The permittee shall ~~install~~, operate and maintain a CO CEMS certified pursuant to Performance Specification 4 in Appendix B of 40 CFR 60. ~~The oxygen monitor shall be certified pursuant to Performance Specification 3 in Appendix B of 40 CFR 60.~~ Quality assurance procedures shall conform to the requirements of 40 CFR 60, Appendix F, and the Data Assessment Report of section 7 shall be made each calendar quarter, and reported semi-annually to the Compliance Authority. The RATA tests required for the CO monitor shall be performed using EPA Method 10 in Appendix A of 40 CFR 60. The Method 10 analysis shall be based on a continuous sampling train, and the ascarite trap may be omitted or the interference trap of section 10.1 may be used in lieu of the silica gel and ascarite traps. The span for the CO monitor shall be based on the emissions standards. ~~The RATA tests required for the oxygen monitor shall be performed using EPA Method 3B in Appendix A of 40 CFR 60. The span for the oxygen monitor shall not be greater than 21%.~~

c. *Continuous Compliance*: Continuous compliance with the applicable CO and NO_x emission limits shall be demonstrated by CEMS. Based on the CEMS data, a separate compliance determination is conducted at the end of each period and a new average emission rate is calculated from the arithmetic average of all valid hourly emission rates from the previous period. Valid hourly emission rates shall not include periods of start up or shutdown unless prohibited by 62-210.700, F.A.C. A valid hourly emission rate shall be calculated for each hour in which at least two measurements are obtained at least 15 minutes apart. Excess emissions periods shall be reported as required in Specific Conditions B.13. and B.27.

d. CEMS Data Exclusion – Combustor Tuning. CEMS data collected during ~~initial or other~~ major combustor tuning sessions shall be excluded from the CEMS compliance demonstration for short term emission standards provided the tuning session is performed in accordance with the manufacturer's specifications. All valid emissions data shall be used to demonstrate compliance with annual emissions caps. A "major tuning session" would occur after completion of initial construction, a combustor change-out, a major repair or maintenance to a combustor, or other similar circumstances. Prior to performing any major tuning session, the permittee shall provide the Department's Southwest District Compliance Authority with advance notice that details the activity and proposed tuning schedule. The notice shall be by telephone, facsimile transmittal, or electronic mail.

[Rules 62-4.070, 62-212.400(PSD), F.A.C., 62-210.700, F.A.C., PSD-FL-185A, PSD-FL-287; applicant request dated April 23, 2010; 1050334-009-AC and 40 CFR 75]

Conclusion

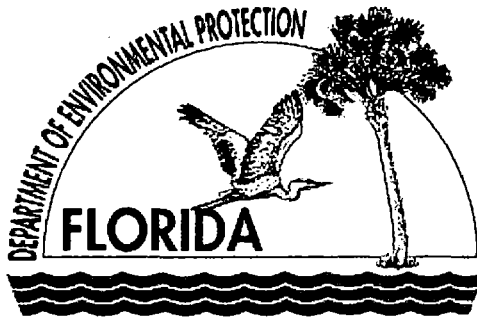
Based on reasonable assurances of compliance provided by the applicant and the Responsible Official's certification of compliance, the Department will issue the initial Title V air operation permit under the provisions of Chapter 403, Florida Statutes (F.S.) and F.A.C. Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-214, 62-296 and 62-297. The permit authorizes operation of the facility shown on the application and approved drawings, plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this initial permit.

Calpine Corporation
Auburndale Peaker Energy Center/
Osprey Energy Center

Facility ID No. 1050334
Polk County

Initial Title V Air Operation Permit

Permit No. 1050334-008-AV



Permitting Authority:

State of Florida
Department of Environmental Protection
Division of Air Resource Management
Bureau of Air Regulation
Title V Section
2600 Blair Stone Road
Mail Station #5505
Tallahassee, Florida 32399-2400
Telephone: (850) 488-0114
Fax: (850) 921-9533

Compliance Authority:

Southwest District Office
13051 N. Telecom Parkway
Temple Terrace, Florida 33637
Telephone: (813) 632-7600
Fax: (813) 632-7665

Initial Title V Air Operation Permit

Permit No. 1050334-008-AV

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DRAFT/PROPOSED PERMIT

PERMITTEE:

Calpine Corporation
717 Texas Avenue, Suite 1000
Houston, Texas 77002

Permit No. 1050334-008-AV
Auburndale Peaker Energy Center/
Osprey Energy Center
Facility ID No. 1050334
Initial Title V Air Operation Permit

This is the initial Title V Air Operation Permit for the above referenced facility. The existing Auburndale Peaker Energy Center/ Osprey Energy Center is located at 1651 West Derby Avenue, Auburndale, Florida, in Polk County. The reference Universal Transverse Mercator (UTM) coordinates are: Zone 17, 420.8 km East and 3103.3 km North. Latitude is: 28° 03' 06" North; and, Longitude is: 81° 48' 21" West.

The Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-213 and 62-214. The above named permittee is hereby authorized to operate the facility in accordance with the terms and conditions of this permit.

Effective Date: January 1, 2011
Renewal Application Due Date: May 20, 2015
Expiration Date: December 31, 2015

(Draft/Proposed)

Joseph Kahn, Director
Division of Air Resource Management

JK/tlv/jkh/tbc

SECTION I. FACILITY INFORMATION.

Subsection A. Facility Description.

The Calpine Corporation is the owner of the two existing power plants that comprise the Auburndale Peaker Energy Center and the Osprey Energy Center complex. The plants consist of a combination of simple cycle and combined cycle combustion turbines. The nominal generating capacity of the complex is 660 megawatts (MW).

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility operates units subject to Phase II of the federal Acid Rain Program.
- The facility is a Title V major source in accordance with Chapter 62-213, F.A.C.
- The facility is a major stationary source pursuant to Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD).
- The facility is subject to power plant site certification.

The facility also operates other miscellaneous unregulated and insignificant emissions units and activities.

Subsection B. Summary of Emissions Units.

EU No.	Brief Description
<i>Regulated Emissions Units</i>	
Auburndale Peaker Energy Center	
006	Nominal 120 megawatt (MW) simple cycle combustion turbine-electrical generator set
Osprey Energy Center	
007	Nominal 170 MW combined cycle combustion turbine-electrical generator set*
008	Nominal 170 MW combined cycle combustion turbine-electrical generator set*
009	Heat recovery steam generator (HRSG) equipped with 250 million British thermal units (MMBtu) per hour gas-fired duct burner system*
010	HRSG equipped with 250 MMBtu per hour gas-fired duct burner system*
<i>Unregulated Emissions Units and Activities</i>	
011	Cooling tower

*Emissions Units 007 – 010 comprise a nominal 540 MW combined cycle unit consisting of two combustion turbines, two HRSG with duct burner systems, and one shared nominal 200 MW steam-electrical generator set.

Subsection C. Applicable Regulations.

Based on the initial Title V air operation permit application received on April 23, 2010, this facility is not a major source of hazardous air pollutants (HAP). Because this facility operates stationary reciprocating internal combustion engines, it is subject to regulation under 40 CFR 63, Subpart ZZZZ - National Emissions Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines. However, since the engines being operated meet the Subpart ZZZZ definition of “existing units”, there are no unit specific applicable requirements that must be met pursuant to this rule at this time. The existing facility is a PSD major source of air pollutants in accordance with Rule 62-212.400, F.A.C. A summary of applicable regulations is shown in the following table.

Regulation	EU No(s).
<i>Federal Rule Citations</i>	
40 CFR 60, Subpart A, NSPS General Provisions	006, 007, 008, 009, 010

SECTION I. FACILITY INFORMATION.

40 CFR 60, Subpart Da (Standards of Performance for Electric Utility Steam Generating Units)	009, 010
40 CFR 60, Subpart GG (Standards of Performance for Stationary Gas Turbines)	006, 007, 008
40 CFR 75 Acid Rain Monitoring Provisions	
<i>State Rule Citations</i>	
Rule 62-4, Florida Administrative Code (F.A.C.) (Permitting Requirements)	006, 007, 008, 009, 010
Rule 62-204, F.A.C. (Ambient Air Quality Requirements, PSD Increments, and Federal Regulations Adopted by Reference)	
Rule 62-210, F.A.C. (Permits Required, Public Notice, Reports, Stack Height Policy, Circumvention, Excess Emissions, and Forms)	
Rule 62-212, F.A.C. (Preconstruction Review, PSD Review and Best Available Control Technology (BACT))	
Rule 62-213, F.A.C. (Title V Air Operation Permits for Major Sources of Air Pollution)	006, 007, 008
Rule 62-214, F.A.C. (Requirements For Sources Subject To The Federal Acid Rain Program)	
Rule 62-296.470, F.A.C. (Clean Air Interstate Rule) (CAIR)	
Rule 62-296, F.A.C. (Emission Limiting Standards)	006, 007, 008, 009, 010
Rule 62-297, F.A.C. (Test Methods and Procedures, Continuous Monitoring Specifications, and Alternate Sampling Procedures)	

SECTION II. FACILITY-WIDE CONDITIONS.

The following conditions apply facility-wide to all emission units and activities:

FW1. Appendices. The permittee shall comply with all documents identified in Section VI, Appendices, listed in the Table of Contents. Each document is an enforceable part of this permit unless otherwise indicated. [Rule 62-213.440, F.A.C.]

Emissions and Controls

FW2. Not federally Enforceable. Objectionable Odor Prohibited. No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rule 62-296.320(2) and 62-210.200(Definitions), F.A.C.]

FW3. General Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. [Rule 62-296.320(1), F.A.C.]

{Permitting Note: Nothing is deemed necessary and ordered at this time.}

FW4. General Visible Emissions. No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b), F.A.C.]

FW5. Unconfined Particulate Matter. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction; alteration; demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions to prevent emissions of unconfined particulate matter (PM) at this facility include:

- a. Paving and maintenance of roads, parking areas and yards.
- b. Chemical (dust suppressants) or water application to unpaved roads, unpaved yard areas and open stock piles.
- c. Removal of PM from roads and other paved areas to prevent re-entrainment and from buildings or work areas to prevent airborne PM.
- d. Landscaping or planting of vegetation.
- e. Use of hoods, fans, filters, and similar equipment to contain, capture, and/or vent PM.
- f. Confining abrasive blasting where possible.
- g. Enclosure or covering of conveyor systems.

[Rule 62-296.320(4)(c), F.A.C.; and, proposed by applicant in the initial Title V air operation permit application received April 23, 2010.]

Annual Reports and Fees

See Appendix RR, Facility-wide Reporting Requirements for additional details.

FW6. Annual Operating Report. The permittee shall submit an annual report that summarizes the actual operating rates and emissions from this facility. Annual operating reports shall be submitted to the Compliance Authority by April 1st of each year. [Rule 62-210.370(3), F.A.C.]

FW7. Annual Emissions Fee Form and Fee. The annual Title V emissions fees are due (postmarked) by March 1st of each year. The completed form and calculated fee shall be submitted to: Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida 32315-3070. The forms are available for

SECTION II. FACILITY-WIDE CONDITIONS.

download by accessing the Title V Annual Emissions Fee On-line Information Center at the following Internet web site: <http://www.dep.state.fl.us/air/emission/tvfee.htm>. [Rule 62-213.205, F.A.C.]

FW8. Annual Statement of Compliance. The permittee shall submit an annual statement of compliance to the compliance authority at the address shown on the cover of this permit within 60 days after the end of each calendar year during which the Title V permit was effective. [Rules 62-213.440(3)(a)2. & 3. and (b), F.A.C.]

FW9. Prevention of Accidental Releases (Section 112(r) of CAA). If, and when, the facility becomes subject to 112(r), the permittee shall:

- a. Submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to: RMP Reporting Center, Post Office Box 10162, Fairfax, VA 22038, Telephone: (703) 227-7650.
- b. Submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.

[40 CFR 68]

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection A. Emissions Unit 006

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
Auburndale Peaker Energy Center	
006	This emissions unit is a nominal 120 MW simple cycle combustion turbine-electrical generator set consisting of a Siemens Westinghouse Model No. 501D5A unit. The primary fuel is natural gas and distillate fuel oil is fired as a restricted alternate fuel. Water injection is used to control NO _x emissions. The simple cycle unit operates during periods of peak power demands and is expected to operate near permitted capacity for approximately 20% to 25% of the permitted hours.

Stack height is 50 feet, stack exit diameter is 22.0 feet, volumetric flow rate is 1,887,100 actual cubic feet per second (acfm) and exit temperature is 1,000 degrees Fahrenheit. Commercial startup date for the unit was May 8, 2002. There are continuous emissions monitor systems (CEMS) installed for the measurement of nitrogen oxides and carbon monoxide. The combustion turbine is subject to: Phase II of the federal Acid Rain Program; the New Source Performance Standards (NSPS) in Subpart A (General Provisions) of 40 CFR 60; and NSPS Subpart GG (Standards of Performance for Stationary Gas Turbines) in 40 CFR 60. Because CEMS data are used to demonstrate compliance with the NO_x limits, compliance assurance monitoring (CAM) does not apply to this emissions unit.

Essential Potential to Emit (PTE) Parameters

A.1. Permitted Capacity. The maximum allowable heat input rate is as follows. Heat input rates will vary depending upon ambient conditions and the combustion turbine characteristics.

Unit No.	MMBtu/hr Heat Input	Fuel Type
006	1,776	Natural gas, based on the following: 100% base load, a higher heating value (HHV) and a compressor inlet air temperature of 32° F.
	1,726	Distillate fuel oil, based on the following: 100% base load a higher heating value (HHV) and a compressor inlet air temperature of 32° F.

[Design; Rules 62-4.160(2), 62-204.800, 62-210.200(PTE), F.A.C.; and, Permit No. 1050221-004-AC]

A.2. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]

A.3. Methods of Operation.

a. *Fuels.* The fuels that are allowed to be burned in this unit/these units are:

- (1) The combustion turbine shall fire only natural gas with maximum sulfur content of 2 grains of sulfur per 100 dry standard cubic feet of gas (monthly average) or distillate oil with a maximum sulfur content of 0.05% by weight. [Rules 62-210.200(PTE), F.A.C. and 1050221-004-AC]
- (2) The combustion turbine shall fire no more than 2,227,400 MMBtu of natural gas during any consecutive 12-month period (equivalent to approximately 1,400 hours/year at base load). The total hours of operation of the combustion turbine while firing distillate fuel oil shall not exceed 400 hours during any consecutive 12-month period. The permittee shall install, calibrate, operate and maintain a monitoring system to measure and accumulate the following for each fuel fired: quantity, heat input rate and hours of operation. [Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; 1050221-004-AC; and 1050221-006-AC]

b. *Other.*

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection A. Emissions Unit 006

- (1) The combustion turbine shall operate only in simple cycle mode not to exceed the permitted hours of operation, nor the permitted short and long-term emission limits allowed by this permit. This restriction is based on the permittee's request, which formed the basis of the PSD non-applicability determination and resulted in the emission standards specified in this permit. Specifically, these restrictions eliminated several control alternatives based on technical as well as regulatory considerations. For any request to modify this emission unit in any way (whether a physical or operational modification, including a change in the allowable hours of operation or heat input, or to alter any short or long-term emission) the permittee shall submit a full PSD permit application complete with a new proposal of the best available control technology as if the unit had never been built. Alternately, the permittee shall submit a determination of PSD applicability for proposed permit changes, which the Department shall consider in making its determination. [Rules 62-4.160(2) and 62-210.200(PTE), F.A.C. and 1050221-004-AC]
- (2) The permittee is authorized to, tune, operate and maintain one new combustion turbine with electrical generator set (Siemens/Westinghouse Model 501D5A). The system shall be maintained and tuned in accordance with the manufacturer's recommendations to minimize permitted pollutant emissions. The unit is designed to produce a maximum 135 MW of electrical power. [Rule 62-212.400, F.A.C. (PSD Avoidance) and 1050221-004-AC]
- (3) The permittee shall calibrate, tune, operate, and maintain a water injection system for the unit. The system shall be designed and operated so as to ensure that NO_x emissions do not exceed 25.0 ppmvd corrected to 15% oxygen while burning natural gas and 42.0 ppmvd corrected to 15% oxygen when burning oil. [Rule 62-212.400, F.A.C. (PSD Avoidance) and 1050221-004-AC]

[Rule 62-213.410, F.A.C.; Applicant's request in Title V permit renewal application received April 23, 2010; and, Permit No(s). 1050221-004-AC and 1050221-006-AC]

A.4. Hours of Operation. The total hours of operation of the combustion turbine while firing distillate fuel oil shall not exceed 400 hours during any consecutive 12-month period. [Rule 62-210.200(PTE), F.A.C. and Permit No. 1050221-004-AC]

{Permitting Note: The hours of operation on natural gas are not specifically limited; however, the annual heat input limitation in Specific Condition A.3. is roughly equivalent to 1,400 hours per year of operation on natural gas at base load.}

Emission Limitations and Standards

Unless otherwise specified, the averaging times for Specific Conditions A.5.-A.9. are based on the specified averaging time of the applicable test method.

A.5. Visible Emissions. Visible emissions shall not be equal to or greater than 20% opacity. [Rule 62.296.320(4)(b)1, F.A.C. and 1050221-004-AC]

A.6. NO_x Emissions. Nitrogen oxides emissions shall not exceed: 25.0 ppmvd corrected to 15% oxygen based on a 24-hour block average when firing natural gas; 42.0 ppmvd corrected to 15% oxygen based on a 24-hour block average when firing distillate oil; and 115 tons/year based on a 12-month rolling total. Compliance with the NO_x BACT standard does not require correction to International Organization for Standardization (ISO) conditions. [Rule 62-212.400 (PSD Avoidance), F.A.C. and 1050221-004-AC]

A.7. SO₂ Emissions. Sulfur dioxide emissions shall be controlled by the firing of: natural gas with a maximum sulfur content of 2 grains of sulfur per 100 dry standard feet of gas (monthly average); and distillate oil with a maximum sulfur content of 0.05% by weight and 74.9 lb/hour (see Specific Condition A.12.). [Rule 62-4.070(3), F.A.C. and 1050221-004-AC]

{Permitting Note: The fuel sulfur limits in Specific Condition A.7. effectively limit the potential emissions of particulate matter (PM/PM₁₀) to 2.9 lb/hour when firing natural gas and 58.5 lb/hour when firing distillate oil; however, emissions of particulate matter are not specifically limited.}

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection A. Emissions Unit 006

- A.8. VOC Emissions.** Volatile organic compound emissions shall not exceed 4.0 parts per million by volume dry (ppmvd) corrected to 15% oxygen when firing natural gas and 5.0 ppmvd corrected to 15% oxygen firing distillate fuel oil. [Rule 62-4.070(3), F.A.C. and 1050221-004-AC]
- A.9. CO Emissions.** Carbon monoxide emissions shall not exceed: 10 ppmvd corrected to 15% oxygen at base load (24-hour average) and 99 tons/year based on a 12-month rolling total while burning all fuels. [Rule 62-212.400(PSD Avoidance), F.A.C. and 1050221-004-AC]

Excess Emissions

Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

- A.10. Excess Emissions Allowed.** Providing the permittee adheres to best operational practices to minimize the amount and duration of excess emissions, the following conditions shall apply:
- During startup and shutdown, visible emissions excluding water vapor may exceed 20% opacity for up to 2 hours in any 24-hour period.
 - During all startups, shutdowns, and malfunctions, the CEMS shall monitor and record emissions. Monitoring data exclusions shall be accordance with Specific Condition **A.13.** of this permit. Note that the twelve month rolling emissions totals required to be reported for CO and NO_x do not exclude any data.
 - In case of malfunctions, the permittee shall notify the Compliance Authorities within one working day. A full written report on the malfunctions shall be submitted in a quarterly report.
[Rules 62-210.700(1),(5), 62-4.130, F.A.C. and 1050221-004-AC]

Monitoring of Operations

- A.11. CMS for Water-to-Fuel Ratio.** The owner or operator of any stationary gas turbine subject to the provisions of 40 CFR 60, Subpart GG and using water injection to control NO_x emissions shall operate a continuous monitoring system (CMS) to monitor and record the fuel consumption and the ratio of water-to-fuel being fired in the turbine. This system shall be accurate to within ± 5.0 percent and shall be approved by the Administrator. This system shall be used as a backup to the required CEMS. [Rule 62-212.400(PSD), F.A.C., 1050221-004-AC and 40 CFR 60, Subpart GG]
- A.12. Fuel Sulfur Monitoring.** The permittee shall demonstrate compliance with the fuel sulfur limit for natural gas specified in this permit by maintaining records of the average sulfur content of the natural gas being supplied for each month of operation in accordance with the following methods: ASTM D1072-80/90/94, D3031-81/86, D3246-81/92, D4084-82/94, D4468-85, D5504-94 or the latest editions or in accordance with approved 40 CFR Part 75 methods. The owner or operator shall determine compliance with the sulfur content standard of 0.05% by weight for distillate oil in accordance with the following methods: ASTM D129-91, D1552-90, D2280-71, D2880-96, D2622-92, D4292, D4294-90 or the latest editions or in accordance with approved 40 CFR Part 75 methods. These methods shall be used to determine the sulfur content of the natural gas fired in accordance with any EPA-approved custom fuel monitoring schedule or natural gas supplier data or the natural gas sulfur content referenced in 40 CFR 75 Appendix D. The analysis may be performed by the permittee, a service contractor retained by the permittee, the fuel vendor, or any other qualified agency pursuant to 40 CFR 60.335. However, the permittee is responsible for ensuring that the procedures in 40 CFR 60.335 or 40 CFR 75 are used to determine the fuel sulfur content for compliance with the 40 CFR 60.333 sulfur dioxide (SO₂) standard. [Rules 62-4.070(3) and 62-4.160(15); and 1050221-004-AC]

Continuous Monitoring Requirements

- A.13. CO, NO_x and O₂ CEMS.** The owner or operator shall calibrate, maintain, and operate a CEMS in the exhaust stack of this emissions unit to measure and record the emissions of NO_x and CO from the emissions units, and the oxygen (O₂) content of the flue gas at the location where NO_x and CO are monitored, in a

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection A. Emissions Unit 006

manner sufficient to demonstrate compliance with the emission limits of this permit. The CEMS shall be used to demonstrate compliance with the emission limits for NO_x and CO within this permit.

- a. The NO_x and O₂ monitor shall be certified pursuant to 40 CFR Part 75 and shall be operated and maintained in accordance with the applicable requirements of 40 CFR Part 75, Subparts B and C. Record keeping and reporting shall be conducted pursuant to 40 CFR Part 75, Subparts F and G. Annual Relative Accuracy Test Audit (RATA) tests required for the NO_x monitor shall be performed using EPA Method 20 or 7E in Appendix A of 40 CFR 60. The RATA tests required for the oxygen monitor shall be performed using EPA Method 3B, of Appendix A of 40 CFR 60. The span for the oxygen monitor shall not be greater than 21%. The permittee shall conduct an annual ~~the~~ RATA tests at 100% output in accordance with the applicable CEMS requirements.
- b. The CO monitor shall be certified pursuant to 40 CFR 60, Appendix B, Performance Specification 4. ~~The O₂ monitor shall be certified pursuant to 40 CFR 60, Appendix B, Performance Specification 3.~~ Quality assurance procedures shall conform to the requirements of 40 CFR 60, Appendix F, and the Data Assessment Report of section 7 shall be made each calendar quarter, and reported semi-annually to the Compliance Authority. The RATA tests required for the CO monitor shall be performed using EPA Method 10, of Appendix A of 40 CFR 60. The Method 10 analysis shall be based on a continuous sampling train, and the ascarite trap may be omitted or the interference trap of section 10.1 may be used in lieu of the silica gel and ascarite traps. The span for the CO monitor shall not be greater than 100 ppmvd corrected to 15% oxygen. ~~The RATA tests required for the oxygen monitor shall be performed using EPA Method 3B, of Appendix A of 40 CFR 60. The span for the oxygen monitor shall not be greater than 21%.~~
- c. For purposes of determining compliance with the NO_x emission limits based on a 24-hour block average, missing data shall not be substituted pursuant to 40 CFR 75. Instead the block average shall be determined using the remaining hourly data in the 24-hour block. However, the permittee's record keeping for the EU-006 NO_x emissions caps (tons/year) shall be in full agreement with data submitted for inclusion on EPA's Acid Rain website which includes all documented exclusions reported to the Department in a quarterly report. The permittee may exclude start up, shutdown, and Part 75 missing data from the ppmvd calculations. However, this data will need to be recorded for the tons/year calculations for netting purposes and as required by the Acid Rain website.
- d. The CO, NO_x and O₂ data shall be recorded by the CEMS during episodes of startup, shutdown and malfunction. No valid monitoring data shall be excluded from the mass-based (tons/year) CO and NO_x emissions limits. Monitoring data collected during startup, shutdown and malfunctions may be excluded in accordance with the following conditions when determining compliance with concentration-based (ppmvd) CO and NO_x emissions limits. CO and NO_x emissions data recorded during these episodes may be excluded from the 24-hour block average calculated to demonstrate compliance with the emission limits of this permit as provided in this paragraph. Periods of data excluded for startup and shutdown shall not exceed two hours (120 minutes) in any ~~block 24-hour period operating day~~. Periods of data excluded for malfunctions shall not exceed two hours (120 minutes) in any ~~24-hour block period operating day~~. All periods of data excluded for any startup, shutdown or malfunction episode shall be consecutive for each episode. Periods of data excluded for all startup, shutdown or malfunction episodes shall not exceed four hours (240 minutes) in any ~~24-hour block period operating day~~. An operating day is defined as a day (midnight to midnight) that contains operation. The owner or operator shall minimize the duration of data excluded for startup, shutdown and malfunctions, to the extent practicable. Data recorded during startup, shutdown or malfunction events shall not be excluded if the startup, shutdown or malfunction episode was caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure, which may reasonably be prevented.
- e. The 24-hour block averages are calculated as follows: starting at midnight of each operating day, a 24-hour block average shall be calculated from 24 valid hourly average emission rate values. Each hourly value shall be computed using at least one data point in each fifteen-minute quadrant of an hour, where the unit combusted fuel during that quadrant of an hour. Notwithstanding this requirement, an hourly

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection A. Emissions Unit 006

value shall be computed from at least two data points separated by a minimum of 15 minutes (where the unit operates for more than one quadrant of an hour). A valid hourly emission rate shall be calculated for each hour in which at least two measurements are obtained at least 15 minutes apart. The owner or operator shall use all valid measurements or data points collected during an hour to calculate the hourly averages. All data points collected during an hour shall be, to the extent practicable, evenly spaced over the hour. If the CEMS measures concentration on a wet basis, the CEM system shall include provisions to determine the moisture content of the exhaust gas and an algorithm to enable correction of the monitoring results to a dry basis (0% moisture). Alternatively, the owner or operator may develop through manual stack test measurements a curve of moisture contents in the exhaust gas versus load for each allowable fuel, and use these typical values in an algorithm to enable correction of the monitoring results to a dry basis (0% moisture). Final results of the CEMS shall be expressed as ppmvd corrected to 15% oxygen. Monitoring data shall be excluded from the 24-hour block average for the following periods: startup, shutdown, or malfunction as defined in Rules 62-210.200 and 62-210.700, F.A.C.; when fuel is not fired in the unit; CEMS quality assurance checks; or when the CEMS is out of control.

- f. For the annual (tons/year) emissions limits of CO and NO_x, measurements shall be in pounds (converted to tons) and be based on a 12-month rolling total starting at the first day of each calendar month. Each monthly total shall be calculated by adding the pounds per day for each valid operating day (all fuels) within the calendar month. This monthly total shall be combined with the emissions from the previous valid 11 calendar months and shall comprise a 12-month rolling total.
- g. Subject to EPA approval, the following alternate monitoring may be used to demonstrate compliance. When requested by the Department, the CEMS emission rates for NO_x on this unit shall be corrected to ISO conditions to demonstrate compliance with the NO_x standard established in 40 CFR 60.332. Data collected from the NO_x CEMS shall be used to report excess emissions in accordance with 40 CFR 60.334(c)(1) of NSPS, Subpart GG.
- h. CEMS Data Exclusion – Combustor Tuning. CEMS data collected during initial or other major combustor tuning sessions shall be excluded from the CEMS compliance demonstration for short term emission standards provided the tuning session is performed in accordance with the manufacturer's specifications. All valid emissions data shall be used to demonstrate compliance with annual emissions caps. A "major tuning session" would occur after completion of initial construction, a combustor change-out, a major repair or maintenance to a combustor, or other similar circumstances. Prior to performing any major tuning session, the permittee shall provide the Department's Southwest District Compliance Authority with advance notice that details the activity and proposed tuning schedule. The notice shall be by telephone, facsimile transmittal, or electronic mail. [Rules 62-4.070(3), 62-212.400(PSD), F.A.C., 62-210.700(5) F.A.C. and PSD-FL-185A]
- i. Note that the twelve month rolling emissions totals required to be reported for CO and NO_x do not exclude any data.

[Rules 62-4.070(3) and 62-212.400(PSD), F.A.C.; 1050221-004-AC; Subparts B, C, F and G in 40 CFR Part 75; Appendix A, B and F of 40 CFR 60; Subparts A and GG in 40 CFR 60; applicant request dated April 23, 2010 and 1050334-009-AC]

Test Methods and Procedures

A.14. Test Methods. Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
7E	Determination of Nitrogen Oxide Emissions from Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources
10	Determination of Carbon Monoxide Emissions from Stationary Sources

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Subsection A. Emissions Unit 006

Method	Description of Method and Comments
18	Measurement of Gaseous Organic Compound Emissions (Gas Chromatography) {Note: Optional testing in accordance with EPA Method 18 may be conducted to account for the actual methane fraction of the measured VOC emissions, if specifically requested.}
19	Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxides Emission Rates {Note: Optional F-factor method may be used to determine flow rate and gas analysis to calculate mass emissions in lieu of Methods 1-4.}
20	Determination of Nitrogen Oxides, Sulfur Dioxide and Diluent Emissions from Stationary Gas Turbines
25A	Method for Determining Gaseous Organic Concentrations (Flame Ionization)

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rules 62-297.401, 62-204.800 and 62-297.100, F.A.C.; 40 CFR 60, Appendix A; 40 CFR 60.334; and 1050221-004-AC]

- A.15. Common Testing Requirements.** Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]
- A.16. Annual Compliance Tests Required.** During each federal fiscal year (October 1st to September 30th), each emissions unit (EU) shall be tested to demonstrate compliance with the emissions standards for CO, NO_x and visible emissions. If conducted at permitted capacity, CO and NO_x emissions data collected during the annual CO and NO_x continuous monitor RATA required pursuant to 40 CFR 75 may be substituted for the required annual performance test. [Rule 62-297.310(7), F.A.C. and Permit No. 1050221-004-AC]
- A.17. Compliance Tests Prior To Renewal.** Prior to renewing the air operation permit, the permittee shall conduct compliance tests for CO, NO_x, VOC, and visible emissions from the combustion turbine. These tests shall be conducted within the 12-month period prior to renewing the air operation permit. For pollutants that are required to be tested annually, the permittee may submit the most recent annual compliance test to satisfy the requirements of this provision. Compliance testing is only required during the combustion of natural gas fuel. The tests shall occur prior to obtaining a renewed operating permit to demonstrate compliance with the emission limits in Specific Conditions A.5. – A.9. [Rules 62-210.300(2)(a) and 62-297.310(7)(a), F.A.C.]
- A.18. Tests After Substantial Modifications.** All performance tests required for initial startup shall also be conducted after any substantial modification and appropriate shakedown period of air pollution control equipment. Shakedown periods shall not exceed 100 days after re-starting the combustion turbine. [1050221-004-AC]
- A.19. Additional Compliance Test Requirements.** If the unit does not combust natural gas for greater than 400 hours during the federal fiscal year, the annual compliance tests are not required, and the annual CO RATA test shall be conducted in conjunction with the next required Part 75 NO_x RATA. Annual RATA testing at 100% output may be utilized to satisfy the annual testing requirements for CO and NO_x. No other methods may be used for compliance testing without prior written approval from the Department. [1050221-004-AC; 40 CFR 60.7 and 60.8; Rules 62-297.310(7)(a)4 and 9, F.A.C.]

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection A. Emissions Unit 006

Recordkeeping and Reporting Requirements

A.20. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Notice of CO and NO _x Caps	Monthly	A.22.
Notice of Fuel Operations	Monthly	A.23.

A.21. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

A.22. Records of CO and NO_x Caps. Annual (12-month rolling total) NO_x and CO limits shall be recalculated monthly and available on site for inspection purposes. Additionally, each year the facility shall submit all 12 months worth of calculations as part of the AOR submission. [1050221-004-AC]

A.23. Monthly Operations Summary. By the fifth calendar day of each month, the permittee shall record the hours of operation by fuel type, 12-month emission totals for NO_x and CO and amount of each fuel fired for the combustion turbine. The information shall be recorded in a written or electronic log and shall summarize the previous month of operation and the previous 12 months of operation. Information recorded and stored as an electronic file shall be available for inspection and/or printing within at least one day of a request from the Compliance Authority. [Rule 62-4.160(15), F.A.C. and 1050221-004-AC]

Other Requirements

A.24. NSPS Provisions. The combustion turbine is subject to applicable requirements in Subpart A (General Provisions) and Subpart GG (Stationary Gas Turbines) of 40 CFR 60.

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Subsection B. Emissions Units 007, 008, 009, 010

The specific conditions in this section apply to the following emissions unit(s):

EU No.	Brief Description
Osprey Energy Center	
007	Nominal 170 megawatt (MW) combustion turbine-electrical generator set consisting of a Siemens Westinghouse "F" Class Model No. 501FD unit.
008	Nominal 170 MW combustion turbine-electrical generator set consisting of a Siemens Westinghouse "F" Class Model No. 501FD unit.
009	HRSR equipped with 250 MMBtu per hour gas-fired duct burner system.
010	HRSR equipped with 250 MMBtu per hour gas-fired duct burner system.

Emissions Units 007 – 010 comprise a nominal 540 megawatt (MW) combined cycle unit consisting of two combustion turbines, two heat recovery steam generators (HRSR) with duct burner systems, and one shared nominal 200 MW steam-electrical generator set. Each combustion turbine (CT) is fired solely with pipeline natural gas and equipped with inlet foggers on the inlet air system. Each system employs selective catalytic reduction (SCR) to control NO_x emissions. Continuous emissions monitoring systems (CEMS) are used to determine compliance with NO_x emission standards. The HRSR duct burners use low NO_x burners to fire natural gas for peak power production. Stack height of the combined cycle units is 142 feet, stack exit diameter is 18.5 feet, volumetric flow rate is 1,021,100 actual cubic feet per minute (acfm) and stack exit temperature is 200 degrees Fahrenheit.

Although SCR systems are installed on the combined cycle units, compliance assurance monitoring (CAM) does not apply because compliance with the NO_x emission standards is demonstrated by CEMS.

{Permitting Note: Emissions units 007 and 008 are regulated under Phase II of the federal Acid Rain Program; NSPS Subpart A (General Provisions) and NSPS Subpart GG (Stationary Gas Turbines) in 40 CFR 60; and Rule 212.400(PSD), F.A.C. Emissions units 009 and 010 are regulated under NSPS Subpart A (General Provisions), NSPS Subpart Da (Standards for Performance for Electric Utility Steam Generating Units for Units Constructed After September 18, 1978) in 40 CFR 60; and Rule 212.400(PSD), F.A.C.}

Essential Potential to Emit (PTE) Parameters

- B.1. Permitted Capacity - Combustion Turbines.** Based on the lower heating value (LHV) of the fuel at ISO conditions, the maximum heat input rate shall not exceed 1,875 MMBtu/hour when firing natural gas without power augmentation. The maximum heat input rate will vary depending upon ambient conditions and the combustion turbine characteristics. Manufacturer's curves corrected for site conditions or equations for correction to other ambient conditions shall be maintained by the plant. [Rule 62-210.200(PTE), F.A.C. and PSD-FL-287A]
- B.2. Permitted Capacity - HRSR with Duct Burners.** The maximum heat input rate when firing natural gas in each HRSR duct burner system shall not exceed 250 MMBtu/hour based on the LHV. [Rule 62-210.200(PTE), F.A.C.]
- B.3. Emissions Unit Operating Rate Limitation After Testing.** See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]
- B.4. Hours of Operation.** The maximum allowable hours of operation for the 527 MW Combined Cycle Plant are 8,760 hours per year while firing natural gas. [Rule 62-210.200(PTE), F.A.C. and PSD-FL-287]

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection B. Emissions Units 007, 008, 009, 010

B.5. Methods of Operation.

- a. *Authorized Fuels.* Only natural gas shall be fired in each combustion turbine and each HRSG duct burner system. Fuel oil firing is not permitted.
- b. *Other.* SCR System: The permittee shall operate and maintain the SCR system at all times of combustion turbine operation except during periods of startup and shutdown as dictated by manufacturer's guidelines and in accordance with this permit.

[Rules 62-210.200(PTE), 62-210.650, F.A.C. and PSD-FL-287]

Emission Limitations and Standards

Unless otherwise specified, the averaging time(s) for Specific Condition(s) **B.6.-B.12.** are based on the specified averaging time of the applicable test method.

B.6. NO_x Standards.

- a. *Combustion Turbine On and Duct Burner On or Off.* As determined by CEMS, the concentration of NO_x in the stack exhaust gas shall not exceed 3.5 ppmvd corrected to 15% oxygen based on a 24-hour block average. This limit shall also apply whether or not each unit is operating with duct burner on and/or in power augmentation mode.
- b. *Combustion Turbine On with Power Augmentation and Duct Burners On.* As demonstrated by annual stack test, NO_x emissions shall not exceed 27.5 lb/hour (at 95° F ambient temperature).
- c. *Duct Burner System (Only).* NO_x emissions from the duct burner systems shall not exceed 0.1 lb/MMBtu, which is more stringent than the NSPS Subpart Da standards. When NO_x monitoring data is not available, substitution for missing data shall be handled as required by 40 CFR 75 to calculate any specified average time. As allowed for in Specific Condition **B.13.**, CEMS data collected during the following periods may be excluded from the 24-hour block average: limited startup data; limited shutdown data; and missing data as defined by 40 CFR 75.

[Rules 62-4.070 and 62-212.400(PSD), F.A.C.; PSD-FL-287 and 40 CFR 60.334(b)(3)(iii)]

B.7. Ammonia Slip Standard. As determined by the ammonia testing and monitoring provisions of the subsection, the concentration of ammonia in the exhaust gas shall not exceed 9.0 ppmvd corrected to 15% oxygen. [Rules 62-4.070 and 62-212.400(PSD), F.A.C.; and PSD-FL-287]

B.8. CO Standards. As demonstrated by CEMS, CO emissions shall not exceed the following.

- a. *For those days when no valid hour includes the use of duct burner firing, power augmentation or operation below 30% base load (excluding periods of startup and shutdown):* CO emissions in the stack exhaust gas shall not exceed 10 ppmvd corrected to 15% oxygen (at ISO conditions) based on a 24-hour block average.
- b. *For those days when at least one valid hour includes the use of duct burner firing, power augmentation or operation below 30% base load (excluding periods of startup and shutdown):* CO emissions in the stack exhaust gas shall not exceed 17 ppmvd corrected to 15% oxygen (at ISO conditions) based on a 24-hour block average.

[Rule 62-212.400, F.A.C. and PSD-FL-287]

B.9. VOC Standards. As demonstrated by initial tests, VOC emissions shall not exceed the following.

- a. *Base load with the Duct Burner Off.* VOC emissions in the stack exhaust gas shall not exceed 2.3 ppmvd corrected to 15% oxygen (at ISO conditions) and 5.8 lb/hour.
- b. *Base load with Power Augmentation and the Duct Burner On.* VOC emissions in the stack exhaust gas shall not exceed 4.6 ppmvd corrected to 15% oxygen (at ISO conditions) and 12.4 lb/hour.

[Rule 62-212.400, F.A.C. and PSD-FL-287]

B.10. SO₂ Standards. SO₂ emissions shall be limited by firing natural gas with a maximum sulfur content of 2 grains/100 standard cubic feet of gas. Compliance with this requirement shall be demonstrated by

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection B. Emissions Units 007, 008, 009, 010

implementing the fuel monitoring provisions specified in this subsection as well as the applicable requirements in NSPS Subparts Da (Duct Burners) and GG (Combustion Turbines) in 40 CFR 60 regarding the SO₂ emissions standards. [Rules 62-4.070(3) and 62-212.400(PSD), F.A.C.; PSD-FL-287; and Subparts Da and GG in 40 CFR 60]

{Permitting Note: This effectively limits the combined SO₂ emissions from EU-007 and EU-008 to 95.4 tons/year.}

- B.11. PM/PM₁₀ Standards.** As demonstrated by initial stack tests, PM/PM₁₀ emissions from each unit shall not exceed 24.1 lb/hour at 100% output with the duct burner on and operating in the power augmentation mode. [Rules 62-4.070(3) and 62-212.400(PSD), F.A.C.; and PSD-FL-287]
- B.12. VE Standards.** Visible emissions shall not exceed 10% opacity. [Rules 62-4.070(3) and 62-212.400(PSD), F.A.C.; and PSD-FL-287]

Excess Emissions

- B.13. Excess Emissions.** Excess emissions resulting from startup, shutdown, or malfunction shall be permitted provided that best operational practices are adhered to and the duration of excess emissions shall be minimized. Excess emissions occurrences shall in no case exceed two hours (120 minutes) in any ~~24-hour period~~ operating day except during both "cold start-up" to, and shutdowns from, combined cycle plant operation. During cold start-up to combined cycle operation, up to four hours (240 minutes) of excess emissions are allowed. During shutdowns from combined cycle operation, up to three hours (180 minutes) of excess emissions are allowed. Cold start-up is defined as a startup to combined cycle operation following a complete shutdown lasting at least 48 hours breaker open of the combustion turbine with no operation above 60% load in the interim for a minimum of 48 hours (2880 minutes). An operating day is defined as a day (midnight to midnight) that contains operation. Operation below 30% output per turbine shall otherwise be limited to 2 hours in any 24-hour period. [Rule 62-210.700(3), F.A.C. and PSD-FL-287; applicant request dated April 23, 2010 and 1050334-009-AC.]

Monitoring of Operations

- B.14. Fuel Monitoring.** To demonstrate compliance with the fuel sulfur limit of this permit, the permittee shall use the appropriate sampling and analytical methods identified in either Appendix D of 40 CFR 75 or 40 CFR 60.335. The monitoring frequency shall be determined by the requirements of 40 CFR 60.334 or an approved custom fuel monitoring schedule in accordance with Appendix D of 40 CFR 75 or 40 CFR 60.334. [PSD-FL-287]

Continuous Monitoring Requirements

- B.15. CO, NO_x and O₂ CEMS.** To demonstrate continuous compliance with the applicable standards, the permittee shall ~~install~~, calibrate, maintain, and operate CEMS in each stack to measure and record CO and NO_x emissions and oxygen concentration from these units.
- a. **NO_x and O₂ CEMS:** The NO_x and O₂ monitor shall be certified pursuant to 40 CFR Part 75 and shall be operated and maintained in accordance with the applicable requirements of 40 CFR Part 75, Subparts B and C. Record keeping and reporting shall be conducted pursuant to 40 CFR Part 75, Subparts F and G. ~~Annual~~ RATA tests required for the NO_x monitor shall be performed using EPA Method 20 or 7E in Appendix A of 40 CFR 60. The RATA tests required for the oxygen monitor shall be performed using EPA Method 3B in Appendix A of 40 CFR 60. The span for the oxygen monitor shall not be greater than 21%. The span for the NO_x monitor shall be based on the emissions standards. The use of the missing data substitution methodology provided in Subpart D of 40 CFR 75 is not required for identifying excess NO_x emissions. Instead, periods of missing CEMS data are to be reported as monitor downtime in the excess emissions and monitoring performance report required in 40 CFR 60.7(c). As allowed for in Specific Condition B.13, CEMS data collected during the following periods may be excluded from the 24-hour block average: limited startup data; limited shutdown data; and missing data as defined by 40

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Subsection B. Emissions Units 007, 008, 009, 010

CFR 75. Upon request from DEP, the CEMS emission rates shall be corrected to ISO conditions to demonstrate compliance with the applicable standards listed within this permit and established in 40 CFR 60.332.

- b. ~~CO and Oxygen CEMS~~: The permittee shall ~~install~~, operate and maintain a CO CEMS certified pursuant to Performance Specification 4 in Appendix B of 40 CFR 60. ~~The oxygen monitor shall be certified pursuant to Performance Specification 3 in Appendix B of 40 CFR 60.~~ Quality assurance procedures shall conform to the requirements of 40 CFR 60, Appendix F, and the Data Assessment Report of section 7 shall be made each calendar quarter, and reported semi-annually to the Compliance Authority. The RATA tests required for the CO monitor shall be performed using EPA Method 10 in Appendix A of 40 CFR 60. The Method 10 analysis shall be based on a continuous sampling train, and the ascarite trap may be omitted or the interference trap of section 10.1 may be used in lieu of the silica gel and ascarite traps. The span for the CO monitor shall be based on the emissions standards. ~~The RATA tests required for the oxygen monitor shall be performed using EPA Method 3B in Appendix A of 40 CFR 60. The span for the oxygen monitor shall not be greater than 21%.~~
- c. *Continuous Compliance*: Continuous compliance with the applicable CO and NO_x emission limits shall be demonstrated by CEMS. Based on the CEMS data, a separate compliance determination is conducted at the end of each period and a new average emission rate is calculated from the arithmetic average of all valid hourly emission rates from the previous period. Valid hourly emission rates shall not include periods of start up or shutdown unless prohibited by 62-210.700, F.A.C. A valid hourly emission rate shall be calculated for each hour in which at least two measurements are obtained at least 15 minutes apart. Excess emissions periods shall be reported as required in Specific Conditions B.13. and B.27.
- d. CEMS Data Exclusion – Combustor Tuning. CEMS data collected during ~~initial or other~~ major combustor tuning sessions shall be excluded from the CEMS compliance demonstration for short term emission standards provided the tuning session is performed in accordance with the manufacturer's specifications. All valid emissions data shall be used to demonstrate compliance with annual emissions caps. A "major tuning session" would occur after completion of initial construction, a combustor change-out, a major repair or maintenance to a combustor, or other similar circumstances. Prior to performing any major tuning session, the permittee shall provide the Department's Southwest District Compliance Authority with advance notice that details the activity and proposed tuning schedule. The notice shall be by telephone, facsimile transmittal, or electronic mail.

[Rules 62-4.070, 62-212.400(PSD), F.A.C., 62-210.700, F.A.C.; PSD-FL-185A, PSD-FL-287; applicant request dated April 23, 2010; 1050334-009-AC and 40 CFR 75]

Test Methods and Procedures

B.16. Test Methods. As required, the following test methods shall be used to determine emissions.

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5	Determination of Particulate Emissions from Stationary Sources.
7E	Determination of Nitrogen Oxide Emissions from Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources
10	Determination of Carbon Monoxide Emissions from Stationary Sources
18	Measurement of Gaseous Organic Compound Emissions (Gas Chromatography) <i>{Note: Optional testing in accordance with EPA Method 18 may be conducted to account for the actual methane fraction of the measured VOC emissions, if specifically requested.}</i>
19	Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxides Emission Rates <i>{Note: Optional F-factor method may be used to determine flow rate and gas analysis to calculate mass emissions in lieu of Methods 1-4.}</i>

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Subsection B. Emissions Units 007, 008, 009, 010

20	Determination of Nitrogen Oxides, Sulfur Dioxide and Diluent Emissions from Stationary Gas Turbines
25	Method for Determining Gaseous Organic Concentrations
25A	Method for Determining Gaseous Organic Concentrations (Flame Ionization)
26A	(Modified) Method for Determining Ammonia Emissions
206	Method for Determining Ammonia Emissions (Ion Chromatographic Analysis)
320	Measurement of Vapor Phase Organic and Inorganic Emissions by Extractive Fourier Transform Infrared (FTIR) Spectroscopy (for Ammonia)

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rules 62-204.800 and 62-297.100, F.A.C.; 40 CFR 60, Appendix A; 40 CFR 60.334; and PSD-FL-287]

- B.17. Common Testing Requirements.** Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]
- B.18. Annual Compliance Tests Required.** During each federal fiscal year (October 1st to September 30th), each emissions unit (EU) shall be tested to demonstrate compliance with the emissions standards for CO, NO_x, ammonia and visible emissions. The required annual RATA test data may be used to demonstrate compliance with the annual test requirement for CO and NO_x emissions. Compliance with the CO standards serves as a surrogate for compliance with the VOC standards. [PSD-FL-287; 40 CFR 60.7 and 60.8; Rules 62-297.310(7)(a)4 and 9, F.A.C.]
- B.19. Compliance Tests Prior To Renewal.** Prior to renewing the air operation permit, the permittee shall conduct compliance tests for CO, NO_x, PM, VOC, and visible emissions from the combustion turbine. These tests shall be conducted within the 12-month period prior to renewing the air operation permit. For pollutants that are required to be tested annually, the permittee may submit the most recent annual compliance test to satisfy the requirements of this provision. [PSD-FL-287; 40 CFR 60.7 and 60.8; Rules 62-297.310(7)(a)4 and 9, F.A.C.]
- B.20. Tests After Substantial Modifications.** All performance tests required for initial startup shall also be conducted after any substantial modification and appropriate shakedown period of air pollution control equipment. Shakedown periods shall not exceed 100 days after re-starting the combustion turbine. [PSD-FL-287; 40 CFR 60.7 and 60.8; Rules 62-297.310(7)(a)4 and 9, F.A.C.]
- B.21. Ammonia Slip.** For each required test, the permittee shall calculate and report the ammonia slip (ppmv @ 15% O₂) at the measured NO_x emission rate (lb/hour) as a means of compliance with the BACT standard. [PSD-FL-287; 40 CFR 60.7 and 60.8; Rules 62-297.310(7)(a)4 and 9, F.A.C.]
- B.22. Testing Procedures.** Unless otherwise specified, testing of emissions shall be conducted with the combustion turbine operating at permitted capacity. Permitted capacity is defined as 90-100 percent of the maximum heat input rate allowed by the permit, corrected for the average ambient air temperature during the test with 100% represented by a curve depicting heat input vs. compressor inlet temperature. Procedures for these tests shall meet all applicable requirements in Appendix TR of this permit. [PSD-FL-287]
- B.23. SCR and Ammonia Slip.** The permittee shall be capable of calculating ammonia slip at the Department's request according to the following procedure.
- In accordance with the manufacturer's specifications, the permittee shall calibrate, operate and maintain an ammonia flow meter to measure and record the ammonia injection rate to the SCR system of each unit.

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- b. The permittee shall develop performance curves for the appropriate ammonia injection rate versus load based on data collected by the NO_x CEMS and the ammonia flow meter. During periods of CEMS downtime, the permittee shall operate at an ammonia flow rate for the given operating load to ensure compliance with the NO_x standard.
- c. Similarly, the permittee shall conduct tests for a range of load conditions and shall determine and report the ammonia flow rate required to comply with the ammonia and NO_x standards. During periods of NO_x CEMS downtimes or malfunctions, the permittee shall adjust the ammonia injection rate based on the previous quarter's operating hours for NO_x, ammonia flow and load and adjust the ammonia flow rate as necessary to comply with NO_x standard.
- d. Ammonia emissions shall be calculated continuously using inlet and outlet NO_x concentrations from the SCR system and ammonia flow supplied to the SCR system. The calculation procedure shall be provided with the CEMS monitoring plan required by 40 CFR Part 75. The following calculation represents one means by which the permittee may demonstrate compliance with this condition:

$$\text{Ammonia Slip (ppmvd @ 15\% O}_2\text{)} = (A - (BC/1,000,000)) (1,000,000/B) (D)$$

Where:

- A = ammonia injection rate (lb/hour) / 17 lb/lb-mol
- B = dry gas exhaust flow rate (lb/hour) / 29 lb/lb-mol
- C = change in measured NO_x (ppmvd @ 15% O₂) across catalyst
- D = correction factor, derived annually during compliance testing by comparing actual to tested ammonia slip.

The calculation along with each newly determined correction factor shall be submitted with each annual compliance test. Calibration data ("as found" and "as left") shall be provided for each measurement device utilized to make the ammonia emission measurement and submitted with each annual compliance test. The calculation will exclude periods of startup and shutdown when determining the ammonia slip limit. The permittee shall notify the Department within 2 business days if the calculated ammonia emissions exceed 9.0 ppmvd corrected to 15% O₂ over a 3-hour block average. The notification shall include a corrective action plan to reduce ammonia emissions below 9 ppmvd corrected to 15% O₂ over a 3-hour block average. Upon specific request by the Department, a special re-test shall occur as described in the previous conditions concerning annual test requirements to demonstrate compliance with all NO_x and ammonia slip related permit limits. [PSD-FL-287]

Recordkeeping and Reporting Requirements

B.24. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
CEMS Reports	Semi-annually	B.26.
Notice of Excess Emissions	As Required	B.27.

B.25. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

B.26. Continuous Monitoring System Reports. The monitoring devices shall comply with the certification and quality assurance, and any other applicable requirements of Rule 62-297.520, F.A.C., 40 CFR 60.13, including certification of each device in accordance with 40 CFR 60, Appendix B, Performance Specifications and 40 CFR 60.7(a)(5) or 40 CFR Part 75. Quality assurance procedures must conform to all applicable sections of 40 CFR 60, Appendix F or 40 CFR 75. [PSD-FL-287]

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection B. Emissions Units 007, 008, 009, 010

B.27. Reporting Excess Emission. If a unit exceeds the CO or NO_x emissions standards based on 24-hour block average, the permittee shall report the excess emissions to the Compliance Authority within one working day. Also, for the purpose of reporting excess NO_x emissions in accordance with 40 CFR 60.334, the NO_x CEMS shall be used in lieu of the water-to-fuel ratio data. [Rules 62-210.700, 62-4.130 and 62-4.160(8), F.A.C.; 40 CFR 60.7; and PSD-FL-287].

OTHER REQUIREMENTS

B.28. NSPS Provisions. The combustion turbines are subject to the applicable requirements of Subpart A (General Provisions) and Subpart GG (Stationary Gas Turbine) in 40 CFR 60. The HRSG equipped with duct burner systems are subject to the applicable requirements of Subpart A (General Provisions) and Subpart Da (Standards for Performance for Electric Utility Steam Generating Units for Units Constructed After September 18, 1978) in 40 CFR 60.

SECTION IV. ACID RAIN PART.

Federal Acid Rain Provisions

Operated by: Calpine Corporation

ORIS Codes: 54658, Auburndale Peaker Energy Center
55412, Osprey Energy Center

The emissions units listed below are regulated under Acid Rain, Phase II.

<u>E.U.</u>	<u>Brief Description</u>
<u>ID No.</u>	
Auburndale Peaker Energy Center	
006	Nominal 120 MW simple cycle combustion turbine-electrical generator set
Osprey Energy Center	
007	Nominal 170 MW combined cycle combustion turbine-electrical generator set (CT1)
008	Nominal 170 MW combined cycle combustion turbine-electrical generator set (CT2)

- A.1.** The Phase II Acid Rain Part application submitted for this facility, as approved by the Department, is a part of this permit. The owners and operators of these Phase II acid rain units must comply with the standard requirements and special provisions set forth in the application listed below:

DEP Form No. 62-210.900(1)(a), dated 04/20/10, received 04/23/10.

[Chapter 62-213, F.A.C. and Rule 62-214.320, F.A.C.]

- A.2.** Sulfur Dioxide (SO₂) Emission Allowances. SO₂ emissions from sources subject to the Federal Acid Rain Program (Title IV) shall not exceed any allowances that the source lawfully holds under the Federal Acid Rain Program. Allowances shall not be used to demonstrate compliance with a non-Title IV applicable requirement of the Act.

- No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the Federal Acid Rain Program, provided that such increases do not require a permit revision pursuant to Rule 62-213.400(3), F.A.C.
- No limit shall be placed on the number of allowances held by the source under the Federal Acid Rain Program.
- Allowances shall be accounted for under the Federal Acid Rain Program.

[Rule 62-213.440(1)(c)1., 2. & 3., F.A.C.]

- A.3.** Comments, notes, and justifications: None.

SECTION IV. ACID RAIN PART.

Federal Acid Rain Provisions

Acid Rain Part Application

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

This submission is: ☐ New ☐ Revised ☐ Renewal

STEP 1

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

Auburndale Peaker Energy Center (APEC) Osprey Energy Center (OEC) Plant name	Florida State	55833 (APEC) 55412 (OEC) ORIS/Plant Code
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STEP 2

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

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

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

a	b	c	d	e
Unit ID#	SO ₂ Opt-In Unit? (Yes or No)	Unit will hold allowances in accordance with 40 CFR 72.9(c)(1)	New or SO ₂ Opt-In Units Commence Operation Date	New or SO ₂ Opt-In Units Monitor Certification Deadline
8 (APEC)	No	Yes	N/A	N/A
CT1 (OEC)	No	Yes	N/A	N/A
CT2 (OEC)	No	Yes	N/A	N/A
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		

SECTION IV. ACID RAIN PART.

Federal Acid Rain Provisions

Auburndale Peaker Energy Center (APEC)
Osprey Energy Center (OEC)
Plant Name (from STEP 1)

STEP 3

Read the standard requirements.

Acid Rain Part Requirements.

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

Monitoring Requirements.

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

Sulfur Dioxide Requirements.

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

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

Excess Emissions Requirements.

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

Recordkeeping and Reporting Requirements.

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

SECTION IV. ACID RAIN PART.

Federal Acid Rain Provisions

STEP 3,
Continued.

Auburndale Peaker Energy Center (APEC)
Osprey Energy Center (OEC)
Plant Name (from STEP 1)

Recordkeeping and Reporting Requirements (cont)

- (iv) Copies of all documents used to complete an Acid Rain Part application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
- (2) The designated representative of an Acid Rain source and each Acid Rain unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR Part 72, Subpart I, and 40 CFR Part 75.

Liability.

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain Part application, an Acid Rain Part, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
- (2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
- (3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
- (4) Each Acid Rain source and each Acid Rain unit shall meet the requirements of the Acid Rain Program.
- (5) Any provision of the Acid Rain Program that applies to an Acid Rain source (including a provision applicable to the designated representative of an Acid Rain source) shall also apply to the owners and operators of such source and of the Acid Rain units at the source.
- (6) Any provision of the Acid Rain Program that applies to an Acid Rain unit (including a provision applicable to the designated representative of an Acid Rain unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR Part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one Acid Rain unit shall not be liable for any violation by any other Acid Rain unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
- (7) Each violation of a provision of 40 CFR Parts 72, 73, 74, 75, 76, 77, and 78 by an Acid Rain source or Acid Rain unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities.

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

- (1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an Acid Rain source or Acid Rain unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
- (2) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;
- (3) Requiring a change of any kind in any state law regulating electric utility rates and charges, affecting any state law regarding such state regulation, or limiting such state regulation, including any prudence review requirements under such state law;
- (4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
- (5) Interfering with or impairing any program for competitive bidding for power supply in a state in which such program is established.

STEP 4
For SO₂ Opt-in
units only.

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

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

In column "h"
enter the hours.

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

SECTION IV. ACID RAIN PART.

Federal Acid Rain Provisions

Auburndale Peaker Energy Center (APEC)
Osprey Energy Center (OEC)

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

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

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


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

STEP 6

For SO₂ Opt-in units only.

Attach additional requirements, certify and sign.

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

Signature		Date
Certification (for designated representative or alternate designated representative only)		
I am authorized to make this submission on behalf of the owners and operators of the Acid Rain source or Acid Rain units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.		
Jason Goodwin Name		Director, Environmental, Health, and Safety Title
Auburndale Peaker Energy Center, LLC (APEC); Calpine Construction Finance Company, LP (OEC) Owner Company Name		
(713) 570-4795 Phone	jgoodwin@calpine.com E-mail address	
Signature 		Date 4/20/10

SECTION V. CAIR PART.
Clean Air Interstate Rule Provisions

Clean Air Interstate Rule (CAIR).

Operated by: Calpine Corporation
ORIS Codes: 54658, Auburndale Peaker Energy Center
55412, Osprey Energy Center

The emissions units below are regulated under the Clean Air Interstate Rule.

<u>E.U. ID No.</u>	<u>Brief Description</u>
Auburndale Peaker Energy Center	
006	Nominal 120 MW simple cycle combustion turbine-electrical generator set
Osprey Energy Center	
007	Nominal 170 MW combined cycle combustion turbine-electrical generator set (CT1)
008	Nominal 170 MW combined cycle combustion turbine-electrical generator set (CT2)

1. Clean Air Interstate Rule Application. The Clean Air Interstate Rule Part Form submitted for this facility is a part of this permit. The owners and operators of these CAIR units as identified in this form must comply with the standard requirements and special provisions set forth in the CAIR Part Form (DEP Form No. 62-210.900(1)(b)) dated March 16, 2008, which is attached at the end of this section. [Chapter 62-213, F.A.C. and Rule 62-210.200, F.A.C.]

SECTION V. CAIR PART.
Clean Air Interstate Rule Provisions

STEP 3

**Read the
standard
requirements.**

**Auburndale Peaker Energy Center (APEC)
Osprey Energy Center (OEC)**

Plant Name (from STEP 1)

CAIR NO_x ANNUAL TRADING PROGRAM

CAIR Part Requirements.

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

Monitoring, Reporting, and Recordkeeping Requirements.

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

NO_x Emission Requirements.

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

Excess Emissions Requirements.

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

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

Recordkeeping and Reporting Requirements.

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

SECTION V. CAIR PART.
Clean Air Interstate Rule Provisions

**STEP 3,
Continued**

**Auburndale Peaker Energy Center (APEC)
Osprey Energy Center (OEC)**

Plant Name (from STEP 1)

Liability.

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

Effect on Other Authorities.

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

CAIR SO₂ TRADING PROGRAM

CAIR Part Requirements.

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

Monitoring, Reporting, and Recordkeeping Requirements.

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

SO₂ Emission Requirements.

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

Excess Emissions Requirements.

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

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

SECTION V. CAIR PART.
Clean Air Interstate Rule Provisions

**STEP 3,
Continued**

**Auburndale Peaker Energy Center (APEC)
Osprey Energy Center (OEC)**

Plant Name (from STEP 1)

Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the CAIR SO₂ source and each CAIR SO₂ unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Department or the Administrator.
- (i) The certificate of representation under 40 CFR 96.213 for the CAIR designated representative for the source and each CAIR SO₂ unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR 96.213 changing the CAIR designated representative.
- (ii) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HHH, of this part, provided that to the extent that 40 CFR Part 96, Subpart HHH, provides for a 3-year period for recordkeeping, the 3-year period shall apply.
- (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR SO₂ Trading Program.
- (iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR SO₂ Trading Program or to demonstrate compliance with the requirements of the CAIR SO₂ Trading Program.
- (2) The CAIR designated representative of a CAIR SO₂ source and each CAIR SO₂ unit at the source shall submit the reports required under the CAIR SO₂ Trading Program, including those under 40 CFR Part 96, Subpart HHH.

Liability.

- (1) Each CAIR SO₂ source and each CAIR SO₂ unit shall meet the requirements of the CAIR SO₂ Trading Program.
- (2) Any provision of the CAIR SO₂ Trading Program that applies to a CAIR SO₂ source or the CAIR designated representative of a CAIR SO₂ source shall also apply to the owners and operators of such source and of the CAIR SO₂ units at the source.
- (3) Any provision of the CAIR SO₂ Trading Program that applies to a CAIR SO₂ unit or the CAIR designated representative of a CAIR SO₂ unit shall also apply to the owners and operators of such unit.

Effect on Other Authorities.

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

CAIR NO_x OZONE SEASON TRADING PROGRAM

CAIR Part Requirements.

- (1) The CAIR designated representative of each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall:
- (i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 98.322 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and
- (ii) [Reserved];
- (2) The owners and operators of each CAIR NO_x Ozone Season source required to have a Title V operating permit or air construction permit, and each CAIR NO_x Ozone Season unit required to have a Title V operating permit or air construction permit at the source shall have a CAIR Part included in the Title V operating permit or air construction permit issued by the DEP under 40 CFR Part 96, Subpart CCCC, for the source and operate the source and the unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

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

NO_x Ozone Season Emission Requirements.

- (1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NO_x Ozone Season allowances available for compliance deductions for the control period under 40 CFR 98.354(a) in an amount not less than the tons of total NO_x emissions for the control period from all CAIR NO_x Ozone Season units at the source, as determined in accordance with 40 CFR Part 96, Subpart HHHH.
- (2) A CAIR NO_x Ozone Season unit shall be subject to the requirements under paragraph (1) of the NO_x Ozone Season Emission Requirements starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 99.370(b)(1)(2), or (3) and for each control period thereafter.
- (3) A CAIR NO_x Ozone Season allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the NO_x Ozone Season Emission Requirements, for a control period in a calendar year before the year for which the CAIR NO_x Ozone Season allowance was allocated.
- (4) CAIR NO_x Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NO_x Ozone Season Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FFFF and GGGG.
- (5) A CAIR NO_x Ozone Season allowance is a limited authorization to emit one ton of NO_x in accordance with the CAIR NO_x Ozone Season Trading Program. No provision of the CAIR NO_x Ozone Season Trading Program, the CAIR Part, or an exemption under 40 CFR 96.305 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.
- (6) A CAIR NO_x Ozone Season allowance does not constitute a property right.
- (7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart EEEE, FFFF or GGGG, every allocation, transfer, or deduction of a CAIR NO_x Ozone Season allowance to or from a CAIR NO_x Ozone Season unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR NO_x Ozone Season unit.

SECTION V. CAIR PART.
Clean Air Interstate Rule Provisions

STEP 3,
Continued

Auburndale Peaker Energy Center (APEC)
Osprey Energy Center (OEC)
Plant Name (from STEP 1)

Excess Emissions Requirements.

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

Recordkeeping and Reporting Requirements.

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

(i) The certificate of representation under 40 CFR 96.313 for the CAIR designated representative for the source and each CAIR NO_x Ozone Season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond each 5-year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR 96.113 changing the CAIR designated representative.

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

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

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

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

Liability.

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

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

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

Effect on Other Authorities.

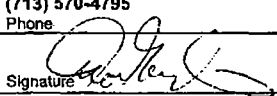
No provision of the CAIR NO_x Ozone Season Trading Program, a CAIR Part, or an exemption under 40 CFR 96.305 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO_x Ozone Season source or CAIR NO_x Ozone Season unit from compliance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

STEP 4

Certification (for designated representative or alternate designated representative only)

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

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

Jason Goodwin Name		Director, Environmental, Health, and Safety Title	
Auburndale Peaker Energy Center, LLC (APEC); Calpine Construction Finance Company, LP (OEC) Owner Company Name			
(713) 570-4795 Phone		jgoodwin@calpine.com E-mail address	
Signature 		4/20/10 Date	

SECTION VI. APPENDICES.

The Following Appendices Are Enforceable Parts of This Permit:

Appendix A, Glossary.

Appendix I, List of Insignificant Emissions Units and/or Activities.

Appendix NESHAP, Subpart A – General Provisions.

Appendix NESHAP, ZZZZ – National Emissions Standards For Hazardous Air Pollutants For
Stationary Reciprocating Internal Combustion Engines.

Appendix NSPS, Subpart A – General Provisions.

Appendix NSPS, Subpart Da – Standards of Performance for Electric Utility Steam Generating Units.

Appendix NSPS, Subpart GG – Standards of Performance for Stationary Gas Turbines.

Appendix RR, Facility-wide Reporting Requirements.

Appendix TR, Facility-wide Testing Requirements.

Appendix TV, Title V General Conditions.

Appendix U, List of Unregulated Emissions Units and/or Activities.

REFERENCED ATTACHMENTS.

The Following Attachments Are Included for Applicant Convenience:

Figure 1, Summary Report-Gaseous and Opacity Excess Emission and
Monitoring System Performance (40 CFR 60, July, 1996).
Table H, Permit History.

FIGURE 1--SUMMARY REPORT--GASEOUS AND OPACITY EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE

[Note: This form is referenced in 40 CFR 60.7, Subpart A-General Provisions]

Pollutant (Circle One): SO₂ NO_x TRS H₂S CO Opacity

Reporting period dates: From _____ to _____

Company: _____

Emission Limitation: _____

Address: _____

Monitor Manufacturer: _____

Model No.: _____

Date of Latest CMS Certification or Audit: _____

Process Unit(s) Description: _____

Total source operating time in reporting period ¹: _____

Emission data summary ¹	CMS performance summary ¹
1. Duration of excess emissions in reporting period due to:	1. CMS downtime in reporting period due to:
a. Startup/shutdown	a. Monitor equipment malfunctions
b. Control equipment problems	b. Non-Monitor equipment malfunctions
c. Process problems	c. Quality assurance calibration
d. Other known causes	d. Other known causes
e. Unknown causes	e. Unknown causes
2. Total duration of excess emissions	2. Total CMS Downtime
3. Total duration of excess emissions x (100) / [Total source operating time] % ²	3. [Total CMS Downtime] x (100) / [Total source operating time] % ²

¹ For opacity, record all times in minutes. For gases, record all times in hours.

² For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in 40 CFR 60.7(c) shall be submitted.

Note: On a separate page, describe any changes since last quarter in CMS, process or controls.

I certify that the information contained in this report is true, accurate, and complete.

Name: _____

Signature: _____ Date: _____

Title: _____

Table H

Permit History				
<u>EU No.</u>	<u>Description</u>	<u>Permit No.</u>	<u>Issue Date</u>	<u>Expiration Date</u>
006	Simple Cycle Combustion Turbine	1050221-004-AC	6/26/01	6/26/06
007	Combustion Turbine	1050334-001-AC	7/5/01	12/31/04
008	Combustion Turbine	1050334-001-AC		
009	Duct Burner	1050334-001-AC		
010	Duct Burner	1050334-001-AC		
011	Cooling Tower	1050334-001-AC		
All	Initial Title V	1050221-002-AV	12/31/97	12/31/02
All	Title V Renewal	1050221-007-AV	1/1/03	12/31/07
All	Title V Revision	1050221-009-AV	5/4/06	12/31/07
All	Air Construction Permit Mod	1050221-010-AC	3/10/06	3/10/11
All	Heat Input Modification	1050221-012-AC	2/7/08	2/7/09
All	Title V Renewal	1050221-013-AV	1/1/08	12/31/12
All	Title V Revision (heat input, testing)	1050221-014-AV	4/4/08	12/31/12
All	CAIR Revision	1050221-015-AV	2/3/09	12/31/12
All	Air Construction Permit Mod	1050334-009-AC		

Friday, Barbara

To: Jason Goodwin
Cc: Zhang-Torres; 'Tom Davis'; 'Forney.Kathleen@epamail.epa.gov';
Oquendo.Ana@epamail.epa.gov; Gibson, Victoria; Cascio, Tom; Holtom, Jonathan; Walker,
Elizabeth (AIR)
Subject: CALPINE CORPORATION-AUBURNDALE ENERGY CENTER - OSPREY ENERGY
CENTER; 1050334-008-AV/1050334-009-AC
Attachments: OspreySignedWrittenNoticeofIntent008AV009AC.pdf

Dear Sir/ Madam:

Attached is the official **Written Notice of Intent to Issue Air Permit** for the project referenced below. Click on the link displayed below to access the permit project documents and send a "reply" message verifying receipt of the document(s) provided in the link; this may be done by selecting "Reply" on the menu bar of your e-mail software, noting that you can view the documents, and then selecting "Send".

Note: We must receive verification that you are able to access the documents. Your immediate reply will preclude subsequent e-mail transmissions to verify accessibility of the document(s).

Attention: Tom Cascio

Owner/Company Name: CALPINE CONSTRUCTION FINANCE COMPANY, LP
Facility Name: OSPREY ENERGY CENTER
Project Number: 1050334-008-AV/1050334-009-AC
Permit Status: DRAFT/PROPOSED
Permit Activity: INITIAL ISSUANCE
Facility County: POLK

Click on the following link to access the permit project documents:

http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/1050334.008.AV.D_pdf.zip

Click on the following link to access the permit project documents:

http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/1050334.009.AC.D_pdf.zip

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Permit project documents that are addressed in this email may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible, and verify that they are accessible. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record. If you have any problems opening the documents or would like further information, please contact the Florida Department of Environmental Protection, Bureau of Air Regulation.

Barbara Friday
Bureau of Air Regulation

Friday, Barbara

From: Microsoft Exchange
To: Jason Goodwin
Sent: Wednesday, September 08, 2010 10:47 AM
Subject: Relayed: CALPINE CORPORATION-AUBURNDALE ENERGY CENTER - OSPREY ENERGY CENTER; 1050334-008-AV/1050334-009-AC

Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:

Jason Goodwin

Subject: CALPINE CORPORATION-AUBURNDALE ENERGY CENTER - OSPREY ENERGY CENTER; 1050334-008-AV/1050334-009-AC

Sent by Microsoft Exchange Server 2007

Friday, Barbara

From: Jason Goodwin [Jason.Goodwin@calpine.com]
Sent: Wednesday, September 08, 2010 11:00 AM
To: Friday, Barbara
Subject: RE: CALPINE CORPORATION-AUBURNDALE ENERGY CENTER - OSPREY ENERGY CENTER; 1050334-008-AV/1050334-009-AC

Received –thanks.

Jason Goodwin
Calpine EHS | Southeast Region
713.570.4795 o | 713.252.8064 m
jason.goodwin@calpine.com
NYSE : CPN

From: Friday, Barbara [mailto:Barbara.Friday@dep.state.fl.us]
Sent: Wednesday, September 08, 2010 9:47 AM
To: Jason Goodwin
Cc: Zhang-Torres; Tom Davis; Forney.Kathleen@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; Gibson, Victoria; Cascio, Tom; Holtom, Jonathan; Walker, Elizabeth (AIR)
Subject: CALPINE CORPORATION-AUBURNDALE ENERGY CENTER - OSPREY ENERGY CENTER; 1050334-008-AV/1050334-009-AC

Dear Sir/ Madam:

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Note: We must receive verification that you are able to access the documents. Your immediate reply will preclude subsequent e-mail transmissions to verify accessibility of the document(s).

Attention: Tom Cascio

Owner/Company Name: CALPINE CONSTRUCTION FINANCE COMPANY, LP
Facility Name: OSPREY ENERGY CENTER
Project Number: 1050334-008-AV/1050334-009-AC
Permit Status: DRAFT/PROPOSED
Permit Activity: INITIAL ISSUANCE
Facility County: POLK

Click on the following link to access the permit project documents:

http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/1050334.008.AV.D_pdf.zip

Click on the following link to access the permit project documents:

http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/1050334.009.AC.D_pdf.zip

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engineering community. Access these documents by clicking on the link provided above, or search for other project documents using the “*Air Permit Documents Search*” website at <http://www.dep.state.fl.us/air/emission/apds/default.asp> . “

Permit project documents that are addressed in this email may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible, and verify that they are accessible. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record. If you have any problems opening the documents or would like further information, please contact the Florida Department of Environmental Protection, Bureau of Air Regulation.

Barbara Friday
Bureau of Air Regulation
Division of Air Resource Management (DARM)
(850)921-9524

The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.

Friday, Barbara

From: Microsoft Exchange
To: Tom Davis
Sent: Wednesday, September 08, 2010 10:48 AM
Subject: Relayed: CALPINE CORPORATION-AUBURNDALE ENERGY CENTER - OSPREY ENERGY CENTER; 1050334-008-AV/1050334-009-AC

Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:

Tom Davis

Subject: CALPINE CORPORATION-AUBURNDALE ENERGY CENTER - OSPREY ENERGY CENTER; 1050334-008-AV/1050334-009-AC

Sent by Microsoft Exchange Server 2007

Friday, Barbara

From: tdavis@ectinc.com
Sent: Wednesday, September 08, 2010 10:53 AM
To: Friday, Barbara
Subject: CALPINE CORPORATION-AUBURNDALE ENERGY CENTER - OSPREY ENERGY CENTER; 1050334-008-AV/1050334-009-AC

I will be away from my office on Wednesday September 8th, and will return on Thursday September 9th.

For immediate assistance, please contact Bill Karl at bkarl@ectinc.com and (352) 248-3313 or John Shrock at jshrock@ectinc.com and (352) 248-3346.

Thanks.

Friday, Barbara

From: Tom Davis [tdavis@ectinc.com]
Sent: Wednesday, September 08, 2010 5:31 PM
To: Friday, Barbara
Subject: RE: CALPINE CORPORATION-AUBURNDALE ENERGY CENTER - OSPREY ENERGY CENTER; 1050334-008-AV/1050334-009-AC

Dear Ms. Friday,

I have received and can access the documents referenced in your email below.

Thanks.

From: Friday, Barbara [mailto:Barbara.Friday@dep.state.fl.us]
Sent: Wednesday, September 08, 2010 10:47 AM
To: Jason Goodwin
Cc: Zhang-Torres; Tom Davis; Forney.Kathleen@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; Gibson, Victoria; Cascio, Tom; Holtom, Jonathan; Walker, Elizabeth (AIR)
Subject: CALPINE CORPORATION-AUBURNDALE ENERGY CENTER - OSPREY ENERGY CENTER; 1050334-008-AV/1050334-009-AC

Dear Sir/ Madam:

Attached is the official **Written Notice of Intent to Issue Air Permit** for the project referenced below. Click on the link displayed below to access the permit project documents and send a "reply" message verifying receipt of the document(s) provided in the link; this may be done by selecting "Reply" on the menu bar of your e-mail software, noting that you can view the documents, and then selecting "Send".

Note: We must receive verification that you are able to access the documents. Your immediate reply will preclude subsequent e-mail transmissions to verify accessibility of the document(s).

Attention: Tom Cascio

Owner/Company Name: CALPINE CONSTRUCTION FINANCE COMPANY, LP
Facility Name: OSPREY ENERGY CENTER
Project Number: 1050334-008-AV/1050334-009-AC
Permit Status: DRAFT/PROPOSED
Permit Activity: INITIAL ISSUANCE
Facility County: POLK

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http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/1050334.008.AV.D_pdf.zip

Click on the following link to access the permit project documents:

http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/1050334.009.AC.D_pdf.zip

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Permit project documents that are addressed in this email may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible, and verify that they are accessible. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record. If you have any problems opening the documents or would like further information, please contact the Florida Department of Environmental Protection, Bureau of Air Regulation.

Barbara Friday
Bureau of Air Regulation
Division of Air Resource Management (DARM)
(850)921-9524

The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.

Friday, Barbara

From: Mail Delivery System [MAILER-DAEMON@mseive01.rtp.epa.gov]
To: Forney.Kathleen@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov
Sent: Wednesday, September 08, 2010 10:48 AM
Subject: Relayed: CALPINE CORPORATION-AUBURNDALE ENERGY CENTER - OSPREY ENERGY CENTER; 1050334-008-AV/1050334-009-AC

Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:

Forney.Kathleen@epamail.epa.gov

Oquendo.Ana@epamail.epa.gov

Subject: CALPINE CORPORATION-AUBURNDALE ENERGY CENTER - OSPREY ENERGY CENTER; 1050334-008-AV/1050334-009-AC

Friday, Barbara

From: Microsoft Exchange
To: Cascio, Tom; Zhang-Torres; Holtom, Jonathan; Gibson, Victoria
Sent: Wednesday, September 08, 2010 10:47 AM
Subject: Delivered: CALPINE CORPORATION-AUBURNDALE ENERGY CENTER - OSPREY ENERGY CENTER; 1050334-008-AV/1050334-009-AC

Your message has been delivered to the following recipients:

Cascio, Tom

Zhang-Torres

Holtom, Jonathan

Gibson, Victoria

Subject: CALPINE CORPORATION-AUBURNDALE ENERGY CENTER - OSPREY ENERGY CENTER; 1050334-008-AV/1050334-009-AC

Sent by Microsoft Exchange Server 2007

Friday, Barbara

From: Cascio, Tom
To: Friday, Barbara
Sent: Wednesday, September 08, 2010 10:50 AM
Subject: Read: CALPINE CORPORATION-AUBURNDALE ENERGY CENTER - OSPREY ENERGY CENTER; 1050334-008-AV/1050334-009-AC

Your message was read on Wednesday, September 08, 2010 10:49:56 AM (GMT-05:00) Eastern Time (US & Canada).

Friday, Barbara

From: Zhang-Torres
To: Friday, Barbara
Sent: Wednesday, September 08, 2010 12:49 PM
Subject: Read: CALPINE CORPORATION-AUBURNDALE ENERGY CENTER - OSPREY ENERGY CENTER; 1050334-008-AV/1050334-009-AC

Your message was read on Wednesday, September 08, 2010 12:48:36 PM (GMT-05:00) Eastern Time (US & Canada).

Friday, Barbara

From: Holtom, Jonathan
To: Friday, Barbara
Sent: Wednesday, September 08, 2010 10:54 AM
Subject: Read: CALPINE CORPORATION-AUBURNDALE ENERGY CENTER - OSPREY ENERGY CENTER; 1050334-008-AV/1050334-009-AC

Your message was read on Wednesday, September 08, 2010 10:54:11 AM (GMT-05:00) Eastern Time (US & Canada).

Friday, Barbara

From: Gibson, Victoria
To: Friday, Barbara
Sent: Tuesday, September 14, 2010 2:04 PM
Subject: Read: CALPINE CORPORATION-AUBURNDALE ENERGY CENTER - OSPREY ENERGY CENTER; 1050334-008-AV/1050334-009-AC

Your message was read on Tuesday, September 14, 2010 2:03:50 PM (GMT-05:00) Eastern Time (US & Canada).

Friday, Barbara

From: Microsoft Exchange
To: Walker, Elizabeth (AIR)
Sent: Wednesday, September 08, 2010 10:47 AM
Subject: Delivered: CALPINE CORPORATION-AUBURNDALE ENERGY CENTER - OSPREY ENERGY CENTER; 1050334-008-AV/1050334-009-AC

Your message has been delivered to the following recipients:

Walker, Elizabeth (AIR)

Subject: CALPINE CORPORATION-AUBURNDALE ENERGY CENTER - OSPREY ENERGY CENTER; 1050334-008-AV/1050334-009-AC

Sent by Microsoft Exchange Server 2007