

Jeb Bush
Governor

Department of Environmental Protection

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

Colleen M. Castille
Secretary

October 19, 2006

{Sent by Electronic Mail}

Mr. Jeff Swartz
Florida Power Corporation dba Progress Energy Florida, Inc.
1729 Baillies Bluff Road
Holiday, Florida 34691

Re: Title V Air Operation Permit Revision
PROPOSED Permit Project No. 1010017-008-AV
Revision to Title V Air Operation Permit No. 1010017-006-AV
Anclote Power Plant – Incorporation of Cooling Tower Project

Dear Mr. Swartz:

One copy of the “PROPOSED Determination” for the Title V Air Operation Permit Revision for the Anclote Power Plant located at 1729 Baillies Bluff Road, Holiday in Pasco County, is enclosed. This letter is only a courtesy to inform you that the DRAFT Permit has become a PROPOSED Permit.

An electronic version of this determination has been posted on the Division of Air Resources Management’s web site for the United States Environmental Protection Agency (USEPA) Region 4 office’s review. The web site address is:

“<http://www.dep.state.fl.us/air/eproducts/ards/default.asp>”

Pursuant to Section 403.0872(6), Florida Statutes, if no objection to the PROPOSED Permit is made by the USEPA within 45 days, the PROPOSED Permit will become a FINAL Permit no later than 55 days after the date on which the PROPOSED Permit was mailed (posted) to USEPA. If USEPA has an objection to the PROPOSED Permit, the FINAL Permit will not be issued until the permitting authority receives written notice that the objection is resolved or withdrawn.

If you should have any questions, please contact Jeff Koerner at 850-921-9536.

Sincerely,

Trina Vielhauer, Chief
Bureau of Air Regulation

TV/JFK/rlb

Enclosures

Electronic copies sent to:

Mr. Jeff Swartz, Florida Power Corporation dba Progress Energy Florida, Inc.
Ms. Ann Quillian, Progress Energy Florida, Inc.
Ms. Mara Nasca, SWD Office
Mr. Gregg Worley, EPA Region 4

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PROPOSED PERMIT DETERMINATION

Public Notice

An "INTENT TO ISSUE TITLE V AIR OPERATION PERMIT REVISION" to Florida Power Corporation dba Progress Energy Florida, Inc. for the Anclote Power Plant located at 1729 Baillies Bluff Road, Holiday in Pasco County was clerked on August 29, 2006. The "PUBLIC NOTICE OF INTENT TO ISSUE TITLE V AIR OPERATION PERMIT REVISION" was published in the St. Petersburg Times (North Pinellas and Pasco County editions) on September 9, 2006. The DRAFT Permit was available for public inspection at the Southwest District Office in Tampa and the permitting authority's office in Tallahassee. No petitions for administrative hearings or extensions of time to petition for an administrative hearing were filed.

Public Comments

No comments on the Draft Permit were received from the public, the Department's Southwest District Office, or EPA Region 4. As described below, the applicant provided minor comments and clarifications.

1. *Comment:* Please clarify the name of the permittee as Florida Power Corporation dba Progress Energy Florida, Inc. throughout the permit as needed.

Response: The permittee's name is updated as requested.

2. *Comment:* In the Facility Description on page 2 under Subsection A of Section I, please revise to clarify the description as follows:

E.U. ID No. ~~Unit~~ 007 consists of two mechanical draft helper cooling towers designed with a circulating water flow rate of 660,000 gallons per minute and drift rate of 0.0005% to control PM/PM10 emissions.

Response: The clarification was made.

3. *Comment:* In the Compliance Plan (CP-1) and Specific Condition 1 on page 25 under Subsection C of Section 3, the units for the flow rate per tower are missing and should be clarified to read as follows:

"Cooling Tower: The permittee is authorized to construct and operate two new mechanical draft cooling towers, 12 cells each, with the following nominal design characteristics: a circulating flow rate of 660,000 gallons per minute (330,000 gpm per tower); a design air flow of 36,000,000 acfm for both towers (18,000,000 acfm per tower and 1,500,000 acfm per cell); drift eliminators and a drift rate of no more than 0.0005% of the circulating water flow for each tower. [Application No. 1010017-007-AC, Design]"

Response: CP-1 and the specific condition were corrected as requested.

4. *Comment:* In the Permitting Note on page 25 under Subsection C of Section III, correct the regulatory citation as follows.

{Permitting note: These emissions units are regulated under ~~62-3213.200~~ 62-212.300, F.A.C., General Preconstruction Review Requirements; 62-212.400, F.A.C., Prevention of Significant Deterioration; Rule 62-296.320, F.A.C.}

Response: The correction was made.

Conclusion

The permitting authority hereby issues the PROPOSED Permit, with any changes noted above.

STATEMENT OF BASIS

Florida Power Corporation
dba Progress Energy Florida, Inc.
Anclote Power Plant
Facility ID No. 1010017
Pasco County, Florida

Title V Air Operation Permit Revision
PROPOSED Permit Project No. 1010017-008-AV
Revision to Title V Air Operation Permit No. 1010017-006-AV

Renewed Title V Air Operation Permit No. 1010017-006-AV was issued on December 21, 2004. This Title V Air Operation Permit Revision is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210 and 62-213. The above named permittee is hereby authorized to operate 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 permit.

This existing facility consists of two fuel oil fired steam electric generating stations, E.U. ID No. -001 (Unit No. 1) and -002 (Unit No. 2). Unit No. 1 consists of a Combustion Engineering, Inc., Controlled Circulation, Radiant Reheat (CCRR) Type boiler/steam generator and steam turbine which drives a generator with a nameplate rating of 535 (summer)/540 (winter) Megawatts. Unit No. 2 consists of a Combustion Engineering, Inc., CCRR Type boiler/steam generator and steam turbine which drives a generator with a nameplate rating of 525 (summer)/530 (winter) Megawatts. Units No. 1 and No. 2 share a common stack. Also included in this permit are miscellaneous unregulated and insignificant emissions units and/or activities. Relocatable diesel fired generator(s) with a maximum heat input of 25.74 MMBtu/hour and a maximum rating of 2460 Kilowatts are permitted to be located at this facility and may be relocated to other Progress Energy facilities. CAM does not apply for any emission units at this facility.

Based on the Title V Air Operation Permit Revision application received July 12, 2006, this facility is a major source of hazardous air pollutants (HAPs).

The subject of this permit revision is to incorporate the terms and conditions of air construction Permit No. 1010017-007-AC for two new mechanical draft cooling towers to replace the two existing cooling towers. The new units will be regulated units, and will be required to report annual PM and PM₁₀ emissions. The air construction permit is being processed concurrently with this permit revision. Construction of the new cooling towers has not begun, and a compliance plan will accompany this permit revision for the installation and proper operation of the new cooling towers. The compliance plan will require the permittee to certify that the cooling towers were constructed and installed to achieve the specific drift rate of no more than 0.0005% of the circulating flow rate within 60 days of commencing commercial operation.

**Florida Power Corporation
dba Progress Energy Florida, Inc.
Anclote Power Plant
Compliance Plan CP-1**

The permittee is authorized to construct and operate two new mechanical draft cooling towers, 12 cells each, with the following nominal design characteristics: a circulating flow rate of 660,000 gallons per minute (330,000 gpm per tower); a design air flow of 36,000,000 acfm for both towers (18,000,000 acfm per tower and 1,500,000 acfm per cell); drift eliminators and a drift rate of no more than 0.0005% of the circulating water flow for each tower.

[Air Construction Permit 1010017-007-AC]

Within 60 days of commencing operation, the permittee shall certify that the cooling towers were constructed and installed to achieve the specific drift rate of no more than 0.0005% of the circulating flow rate. [Air Construction Permit 1010017-007-AC]

Appendix H-1, Permit History/ID Number Changes

Florida Power Corporation dba Progress Energy Florida, Inc.
Anclote Power Plant

PROPOSED Permit No.: 1010017-008-AV
Facility ID No.: 1010017

Permit History (for tracking purposes):

E.U. ID No	Description	Permit No.	Issue Date	Expiration Date	Extended Date ^{1,2}	Revised Date(s)
-001	Fossil Fuel Fired Steam Generator # 1	AO51-254492	03/7/1995	03/6/1999		
		AO51-254492A	1/31/1996	03/6/2000		
		1010017-004-AC	10/13/98	12/1/1999		
		1010017-003-AV	1/1/2000	12/31/2004		
		1010017-006-AV	1/1/2005	12/31/2009		
-002	Fossil Fuel Fired Steam Generator # 2	AO51-169340	12/21/1989	12/18/1994	08/14/1996	01/31/1996
		1010017-001-AO	01/31/1996	12/31/2004		
		1010017-004-AC	10/13/98	12/1/1999		
		1010017-003-AV	1/1/2000	12/31/2004		
		1010017-006-AV	1/1/2005	12/31/2009		
-007	Helper Cooling Towers	1010017-007-AC	xx/xx/xxxx	xx/xx/xxxx		
		1010017-008-AV	xx/xx/xxxx	12/31/2009		

ID Number Changes (for tracking purposes):

From: Facility ID No.: 40TPA510017

To: Facility ID No.: 1010017

Notes:

1 - AO permit(s) automatic extension(s) in Rule 62-210.300(2)(a)3.a., F.A.C., effective 03/21/96.

2 - AC permit(s) automatic extension(s) in Rule 62-213.420(1)(a)4., F.A.C., effective 03/20/96.

{Rule 62-213.420(1)(b)2., F.A.C., allows Title V Sources to operate under existing valid permits that were in effect at the time of application until the Title V permit becomes effective}

Florida Power Corporation
dba Progress Energy Florida, Inc.
Anclote Power Plant

PROPOSED Permit No.: 1010017-008-AV

Appendix U-1. List of Unregulated Emissions Units and/or Activities.

Unregulated Emissions Units and/or Activities. An emissions unit which emits no “emissions-limited pollutant” and which is subject to no unit-specific work practice standard, though it may be subject to regulations applied on a facility-wide basis (e.g., unconfined emissions, odor, general opacity) or to regulations that require only that it be able to prove exemption from unit-specific emissions or work practice standards.

The below listed emissions units and/or activities are neither ‘regulated emissions units’ nor ‘insignificant emissions units’.

Emissions Unit	Description
-003	Surface Coating and Solvent Cleaning
-004	Fuel Storage Tanks
-005	Emergency Generators
-006	General Purpose Engines
-007	Helper Cooling Towers

Friday, Barbara

From: Nasca, Mara
To: Friday, Barbara
Sent: Wednesday, October 25, 2006 6:01 PM
Subject: Read: PROPOSED Title V Permit Revision No.: 1010017-008-AV - Progress Energy Florida, Inc. - Anclote Power Plant

Your message

To: Nasca, Mara
Cc: Koerner, Jeff
Subject: PROPOSED Title V Permit Revision No.: 1010017-008-AV - Progress Energy Florida, Inc. - Anclote Power Plant
Sent: 10/23/2006 9:34 AM

was read on 10/25/2006 6:01 PM.

Friday, Barbara

From: Worley.Gregg@epamail.epa.gov
Sent: Wednesday, October 25, 2006 7:54 AM
To: Friday, Barbara
Subject: Re: PROPOSED Title V Permit Revision No.: 1010017-008-AV - Progress Energy Florida, Inc. - Anclote Power Plant

Gregg M. Worley
Chief, Air Permits Section
U.S. EPA Region 4
(404) 562-9141
fax (404) 562-9019

CONFIDENTIALITY NOTICE:

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Friday, Barbara

From: Nasca, Mara
To: Friday, Barbara
Sent: Tuesday, August 29, 2006 11:48 AM
Subject: Read: DRAFT Title V Permit Revision No.: 1010017-007-AC/1010017-008-AV - Progress Energy Florida, Inc. - Anclote Power Plant

Your message

To: Nasca, Mara; 'ann.quillian@pgn.mail.com'
Cc: Bull, Robert
Subject: DRAFT Title V Permit Revision No.: 1010017-007-AC/1010017-008-AV - Progress Energy Florida, Inc. - Anclote Power Plant
Sent: 8/29/2006 11:40 AM

was read on 8/29/2006 11:48 AM.

Friday, Barbara

To: Nasca, Mara; ann.quillian@pgn.mail.com
Cc: Bull, Robert
Subject: DRAFT Title V Permit Revision No.: 1010017-007-AC/1010017-008-AV - Progress Energy Florida, Inc. - Anclote Power Plant
Attachments: 1010017-007-AC-D.zip; 1010017-008-AV-D.zip

Attached for your records are zip files for the subject DRAFT Title V/AC Permit Revision.

If I may be of further assistance, please feel free to contact me.

Barbara J. Friday
Planner II
Bureau of Air Regulation
(850)921-9524
Barbara.Friday@dep.state.fl.us

8/29/2006

Friday, Barbara

From: System Administrator
To: Nasca, Mara
Sent: Tuesday, August 29, 2006 11:41 AM
Subject: Delivered:DRAFT Title V Permit Revision No.: 1010017-007-AC/1010017-008-AV - Progress Energy Florida, Inc. - Anclote Power Plant

Your message

To: Nasca, Mara; 'ann.quillian@pgn.mail.com'
Cc: Bull, Robert
Subject: DRAFT Title V Permit Revision No.: 1010017-007-AC/1010017-008-AV - Progress Energy Florida, Inc. - Anclote Power Plant
Sent: 8/29/2006 11:40 AM

was delivered to the following recipient(s):

Nasca, Mara on 8/29/2006 11:40 AM

Memorandum

Florida Department of Environmental Protection

TO: Trina Vielhauer, Chief - Bureau of Air Regulation
THROUGH: Jeff Koerner, Air Permitting North Program *JK*
FROM: Bobby Bull, Air Permitting North Program
DATE: August 28, 2006
SUBJECT: Draft Air Permit No. 1010017-007-AC (PSD-FL-379)
Draft Title V Permit No. 1010017-008-AV
Progress Energy Florida, Inc.- Anclote Power Plant
New Helper Cooling Towers

Attached for your review are the following items:

- Combined Intent to Issue Permit and Public Notice Package;
- Technical Evaluation and Preliminary Determination;
- Statement of Basis;
- Draft Air Construction and Draft Title V Permits; and
- PE Certification

The draft air construction permit authorizes the construction of new helper cooling towers, emission unit 007, to replace the existing cooling towers. The Title V revision will incorporate the new cooling towers as well as incorporate the compliance plan for proper design and operation of the cooling towers. The new equipment will be installed at the Anclote Power Plant which is located at 1729 Baillies Bluff Road, Holiday in Pasco County, Florida.

The Technical Evaluation and Preliminary Determination and Statement of Basis provide a detailed description of the project, rule applicability, and emissions standards. The P.E. certification briefly summarizes the proposed project. I recommend your approval of the attached Draft Permit for this project.

Attachments



Department of Environmental Protection

Jeb Bush
Governor

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

Colleen M. Castille
Secretary

August 28, 2006

Mr. Jeff Swartz
Progress Energy Florida, Inc.
1729 Baillies Bluff Road
Holiday, FL 34691

Re: Project Nos. 1010017-007-AC (PSD-FL-379) and 1010017-008-AV
Progress Energy Florida – Anclote Power Plant
Construction of New Helper Cooling Towers and Incorporation into the Title V permit

Dear Mr. Swartz:

On May 9, 2006, you submitted an application requesting the installation of two new helper cooling towers to replace the existing helper cooling towers. The Anclote Power Plant is located at 1729 Baillies Bluff Road, Holiday in Pasco County, Florida. Enclosed are the following documents: "Technical Evaluation and Preliminary Determination" and "Draft Permit". The "Technical Evaluation and Preliminary Determination" summarizes the Permitting Authority's technical review of the application and provides the rationale for making the preliminary determination to issue the permit. The "Draft Permit" includes the specific changes to permit conditions that the Department intends to make.

On July 12, 2006, the Department received your application to revise your current Title V air operation permit to incorporate the conditions of project No. 1010017-007-AC (PSD-FL-379). Enclosed are the following related documents: "Statement of Basis" and "DRAFT Title V Permit Revision". The "Statement of Basis" summarizes the Permitting Authority's technical review of the application and provides the rationale for making the preliminary determination to issue a DRAFT Permit. The proposed "DRAFT Permit" includes specific conditions that regulate the emissions units at this facility.

The Department is providing its preliminary determination to issue both of these permits at the same time. Enclosed are the following combined documents related to these projects: "Written Notice of Intent to Issue Air Construction Permit/Title V Air Operation Permit" and "Public Notice of Intent to Issue Air Construction Permit/Title V Air Operation Permit". These documents combine both projects so that the new conditions of the air construction permit can be incorporated into the revised Title V air operation permit. The "Written Notice" provides important information regarding: the Permitting Authority's intent to issue the permits; the requirements for publishing the Public Notice of the Permitting Authority's intent to issue the air permits; the procedures for submitting comments on the Draft Permits; the requirements for requesting a public meeting; the process for filing a petition for an administrative hearing; and the availability of mediation. The "Public Notice" 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.

If you have any questions, please contact the Project Engineer, Bobby Bull, at 850-921-9585.

Sincerely,

Trina Vielhauer, Chief
Bureau of Air Regulation

Enclosures

"More Protection, Less Process"

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SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. <p>1. Article Addressed to: Mr. Jeff Swartz Progress Energy Florida, Inc. 1729 Baillies Bluff Road Holiday, Florida 34691</p>	<p>A. Signature <input checked="" type="checkbox"/> <i>Jeff Swartz</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____ Date of Delivery <u>8/31</u></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label)</p>	<p>7005 1160 0004 3034 4196</p>

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

7005 1160 0004 3034 4196

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL USE Mr. Jeff Swartz	
Postage	\$ _____
Certified Fee	_____
Return Receipt Fee (Endorsement Required)	_____
Restricted Delivery Fee (Endorsement Required)	_____
Total Postage & Fees	\$ _____
Sent To Mr. Jeff Swartz Street, Apt. No., or PO Box No. 1729 Baillies Bluff Road City, State, ZIP+4 Holiday, Florida 34691	
PS Form 3800, June 2002 See Reverse for Instructions	

**WRITTEN NOTICE OF INTENT TO ISSUE
AIR CONSTRUCTION PERMIT/TITLE V AIR OPERATION PERMIT**

*In the Matter of an
Application for Title V Air Operation Permit by:*

Mr. Jeff Swartz
Progress Energy Florida, Inc.
1729 Baillies Bluff Road
Holiday, FL 34691

Draft Air Construction Permit No. 1010017-007-AC (PSD-FL-379)
DRAFT Title V Permit No. 1010017-008-AV
Pasco County, Florida

Facility Location: Progress Energy Florida, Inc. operates the Anclote Power Plant, which is located at 1729 Baillies Bluff Road, Holiday in Pasco County, Florida.

Air Construction Permit Project: The applicant proposes the installation of two new helper cooling towers to replace the existing helper cooling towers. Details of the project are provided in the application and the enclosed "Technical Evaluation, Preliminary Determination and Statement of Basis".

Title V Air Operation Permit Project: The subject of this permit is for the revision of Title V Air Operation Permit to incorporate the conditions of air construction permit No. 1010017-007-AC. Additional details of the project are provided in the application and the enclosed "Technical Evaluation and Preliminary Determination" and "Statement of Basis". The DRAFT Title V Air Operation permit revision incorporates the concurrent air construction permit.

Permitting Authority: Applications for these permitting actions are subject to review in accordance with the provisions of Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-210, 62-212, 62-213 and 62-214 of the Florida Administrative Code (F.A.C.). The proposed projects are not exempt from air permitting requirements and air permits are required for the proposed construction and to operate the facility. The Florida Department of Environmental Protection's Bureau of Air Regulation is the Permitting Authority responsible for making permit determinations regarding these projects. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite #4, in 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 and facsimile number is 850/922-6979.

Project Files: Complete project files are 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. For the Air Construction Permit Project, the complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. For the Title V Air Operation Permit Project, the complete project file includes the DRAFT 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 Permit and file electronic comments by visiting the following website: <http://www.dep.state.fl.us/air/eproducts/ards/>. Copies of the complete project files are also available at the Department's Southwest District office, 13051 Telecom Parkway, Temple Terrace, FL, 33637-0926 (Phone Number: 813/632-7600).

Notice of Intent to Issue Air Permits: The Permitting Authority gives notice of its intent to issue the Draft Air Construction Permit and the DRAFT Title V Air Operation Permit to the applicant for the projects described above. The applicant has provided reasonable assurance that operation of the facility will not adversely impact air quality and that the projects 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. For the Draft Air Construction Permit, the Permitting Authority will issue a Final Permit in accordance with the conditions of the Draft Permit unless a response received in accordance with the following procedures results in a different decision or a significant change of terms or conditions. For the DRAFT Title V Air Operation Permit, the Permitting Authority will issue a PROPOSED Permit and subsequent FINAL Permit in accordance with the conditions of the DRAFT 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 Construction Permit/Title V Air Operation Permit" (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 above address or phone

**WRITTEN NOTICE OF INTENT TO ISSUE
AIR CONSTRUCTION PERMIT/TITLE V AIR OPERATION PERMIT**

number. Pursuant to Rule 62-110.106(5), F.A.C., the applicant shall provide proof of publication to the Permitting Authority at the above address within seven (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 on the Air Construction Permit Project: The Permitting Authority will accept written comments concerning the Draft Air Construction Permit for a period of thirty (30) days from the date of publication of the Public Notice. Written comments must be post-marked, and all e-mail or facsimile 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, email or facsimile. 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 and in a newspaper of general circulation in the area affected by the permitting action. For additional information, contact the Permitting Authority at the above address or phone number. If written comments result in a significant change to the Draft Permit, the Permitting Authority will issue a revised Draft Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

Comments on the DRAFT Title V Air Operation Permit Project: The Permitting Authority will accept written comments concerning the DRAFT Permit for a period of thirty (30) days from the date of publication of the Public Notice. Written comments must be post-marked, and all e-mail or facsimile 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, email or facsimile. 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 and in a newspaper of general circulation in the area affected by the permitting action. For additional information, contact the Permitting Authority at the above address or phone number. If written comments or comments received at a public meeting result in a significant change to the DRAFT Permit, the Permitting Authority will issue a Revised DRAFT Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

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

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


**WRITTEN NOTICE OF INTENT TO ISSUE
AIR CONSTRUCTION PERMIT/TITLE V AIR OPERATION PERMIT**

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". Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on these applications 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.

Objections to the DRAFT Title V Permit: Finally, pursuant to 42 United States Code (U.S.C.) Section 7661d(b)(2), any person may petition the Administrator of the EPA within sixty (60) days of the expiration of the Administrator's 45 (forty-five) 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 thirty (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>.

Executed in Tallahassee, Florida.



Trina Vielhauer, Chief
Bureau of Air Regulation

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this "Written Notice of Intent to Issue Air Permit" package (including the Written Notice of Intent, the Public Notice, the Technical Evaluation and Preliminary Determination, the Draft Air Construction Permit, the Statement of Basis, and the DRAFT Title V Air/Operation Permit) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 8/29/06 to the persons listed below.

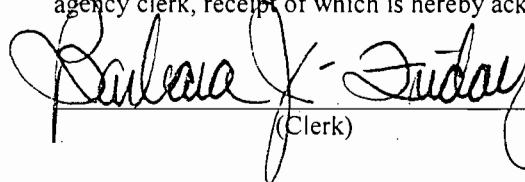
Jeff Swartz, Progress Energy*

The following parties were sent copies of these documents by INTERNET E-mail Memorandum:

Ann Quillian, Progress Energy
Mara Nasca, FL DEP- SWD
USEPA, Region 4

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)

8/29/06
(Date)

**PUBLIC NOTICE OF INTENT TO ISSUE
AIR CONSTRUCTION PERMIT/TITLE V AIR OPERATION PERMIT**

Florida Department of Environmental Protection
Draft Air Construction Permit No. 1010017-007-AC (PSD-FL-379)
DRAFT Title V Air Operation Permit No. 1010017-008-AV
Anclote Power Plant
Pasco County, Florida

Applicant: The applicant for this project is Progress Energy Florida, Inc. The applicant's mailing address is 1729 Baillies Bluff Road, Holiday, FL 32218-22600. The applicant's responsible official is Jeff Swartz, Plant Manager.

Facility Location: Progress Energy Florida, Inc. operates the Anclote Power Plant, which is located at 1729 Baillies Bluff Road, Holiday in Pasco County, Florida.

Air Construction Permit Project: The applicant proposes the installation of two new mechanical draft helper cooling towers to replace the existing helper cooling towers. The cooling towers will emit particulate matter as salt in water droplets that carry over from the cooling towers as drift. The project is subject to preconstruction review for particulate matter for the Prevention of Significant Deterioration (PSD) in accordance with Rule 62-212.400, F.A.C. The preliminary determination of the Best Available Control Technology (BACT) is the inclusion of drift eliminators to reduce drift to no more than 0.0005% of the water recirculation rate. An air quality analysis was not required because potential particulate matter emissions less than 10 microns in diameter (PM₁₀) will be less than the significant emission rate of 15 tons per year.

Title V Air Operation Permit Project: The subject of this permit is for the revision of Title V Air Operation Permit to incorporate the conditions of air construction permit No. 1010017-007-AC, as described above.

Permitting Authority: Applications for these permitting actions are subject to review in accordance with the provisions of Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-210, 62-212, 62-213 and 62-214 of the Florida Administrative Code (F.A.C.). The proposed projects are not exempt from air permitting requirements and air permits are required for the proposed construction and to operate the facility. The Florida Department of Environmental Protection's Bureau of Air Regulation is the Permitting Authority responsible for making permit determinations regarding these projects. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite #4, in 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 and facsimile number is 850/922-6979.

Project Files: Complete project files are 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. For the Air Construction Permit Project, the complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. For the Title V Air Operation Permit Project, the complete project file includes the DRAFT 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 Permit documents and file electronic comments by visiting the following website: <http://www.dep.state.fl.us/air/eproducts/ards/>. Copies of the complete project files are also available at the Department's Southwest District office, 13051 Telecom Parkway, Temple Terrace, FL, 33637-0926 (Phone Number: 813/632-7600).

Notice of Intent to Issue Air Permits: The Permitting Authority gives notice of its intent to issue the Draft Air Construction Permit and the DRAFT Title V Air Operation Permit to the applicant for the projects described above. The applicant has provided reasonable assurance that operation of the facility will not adversely impact air quality and that the projects 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. For the Draft Air Construction Permit, the Permitting Authority will issue a Final Permit in accordance with the conditions of the Draft Permit unless a response received in accordance with the following procedures results in a different decision or a significant change of terms or conditions. For the DRAFT Title V Air Operation Permit, the Permitting Authority will issue a PROPOSED Permit and subsequent FINAL Permit in accordance with the conditions of the DRAFT 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 on the Air Construction Permit Project: The Permitting Authority will accept written comments concerning the Draft Air Construction Permit for a period of thirty (30) days from the date of publication of the Public Notice. Written comments must be post-marked, and all e-mail or facsimile 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, email or facsimile. 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 and in a newspaper of general circulation in the area affected by the permitting action. For additional information, contact the Permitting Authority at the above address or

(Public Notice to be Published in the Newspaper)

**PUBLIC NOTICE OF INTENT TO ISSUE
AIR CONSTRUCTION PERMIT/TITLE V AIR OPERATION PERMIT**

phone number. If written comments result in a significant change to the Draft Permit, the Permitting Authority will issue a revised Draft Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

Comments on the DRAFT Title V Air Operation Permit Project: The Permitting Authority will accept written comments concerning the DRAFT Permit for a period of thirty (30) days from the date of publication of the Public Notice. Written comments must be post-marked, and all e-mail or facsimile 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, email or facsimile. 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 and in a newspaper of general circulation in the area affected by the permitting action. For additional information, contact the Permitting Authority at the above address or phone number. If written comments or comments received at a public meeting result in a significant change to the DRAFT Permit, the Permitting Authority will issue a Revised DRAFT Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

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

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

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". Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on these applications 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.

Objections to the DRAFT Title V Permit: Finally, pursuant to 42 United States Code (U.S.C.) Section 7661d(b)(2), any person may petition the Administrator of the EPA within sixty (60) days of the expiration of the Administrator's 45 (forty-five) 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 thirty (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

**PUBLIC NOTICE OF INTENT TO ISSUE
AIR CONSTRUCTION PERMIT/TITLE V AIR OPERATION PERMIT**

EPA review and objections, visit EPA's Region 4 web site at <http://www.epa.gov/region4/air/permits/Florida.htm>.

**TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION**

PROJECT

Draft Air Construction Permit No.1010017-007-AC
(PSD-FL-379)
New Mechanical Draft Helper Cooling Towers

COUNTY

Pasco

APPLICANT

Progress Energy Florida, Inc.
Anclote Power Plant
ARMS Facility ID No. 1010017

**PERMITTING
AUTHORITY**

Florida Department of Environmental Protection
Division of Air Resource Management
Bureau of Air Regulation
Air Permitting North Program



August 28, 2006

{Filename: 1010017007 tepd.doc}

TECHNICAL EVALUATION AND BACT DETERMINATION

1. GENERAL PROJECT INFORMATION

Applicant Name and Address

Progress Energy Florida, Inc.
Anclote Power Plant
1729 Baillies Bluff Road
Holiday, FL 34691

Authorized Representative: Jeff Swartz

Processing Schedule

5/9/06 Received the application for a minor source air pollution construction permit.
6/6/06 Application incomplete; Sent Request for Additional Information.
7/12/06 Received information on request for information; application complete.

Facility Description and Location

This facility consists of two fuel oil fired steam electric generating stations, E.U. ID No. -001 (Unit No. 1) and -002 (Unit No. 2). Unit No. 1 consists of a Combustion Engineering, Inc., Type Controlled Circulation, Radiant Reheat (CCRR) boiler/steam generator and steam turbine which drives a generator with a nameplate rating of 535 (summer)/540 (winter) Megawatts. Unit No. 2 consists of a Combustion Engineering, Inc., CCRR Type boiler/steam generator and steam turbine which drives a generator with a nameplate rating of 525 (summer)/530 (winter) Megawatts. Units No. 1 and No. 2 share a common stack. Also included in this permit are miscellaneous unregulated and insignificant emissions units and/or activities. Relocatable diesel fired generator(s) with a maximum heat input of 25.74 MMBtu/hour and a maximum rating of 2460 Kilowatts are permitted to be located at this facility and may be relocated to other Progress Energy facilities. The UTM coordinates are Zone 17, 324.4 km East, and 3118.7 km North. This site is in an area that is in attainment (or designated as unclassifiable) for all air pollutants subject to a National Ambient Air Quality Standard (NAAQS).

Standard Industrial Classification Code (SIC)

SIC No. 4911 – Electrical Services

Regulatory Categories

Title III: The existing facility is identified as a potential major source of hazardous air pollutants (HAP).

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

Title V: The existing facility is a Title V major source of air pollution in accordance with Chapter 213, F.A.C.

PSD: The existing facility is a PSD-major facility in accordance with Rule 62-212.400, F.A.C.

Project Description

This project consists of the construction and operation of two mechanical draft cooling towers to replace the existing cooling towers at the facility due to their degraded condition. The new towers will be constructed from salt water corrosion resistant material and each tower will consist of 12 cells. The towers are expected to be 50-59 feet tall, and the stacks are expected to be 10-14 feet tall on top of the cooling towers. The towers are used primarily in the summer months in order to reduce the discharge water temperature to meet the conditions of the facility's current water permit, and it is anticipated that the units will operate no more than 4500 hours per year. Brackish water used for cooling has an estimated total dissolved solids (TDS) of 29,000 parts per million. The existing circulating water pumps will be reused with no increase in throughput.

The cooling towers provide direct contact between the cooling water and air passing through the tower. Drift is created when small amounts of cooling water become entrained in the air stream and are carried out the tower. Particulate Matter is emitted as salt in the water droplets that escape as drift from the tower. Drift eliminators is the control technology used to control PM emissions caused by the cooling tower drift.

2. APPLICABLE REGULATIONS

State Regulations

This project is subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The

TECHNICAL EVALUATION AND BACT DETERMINATION

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: 62-4 (Permitting Requirements); 62-204 (Ambient Air Quality Requirements, PSD Increments, and Federal Regulations Adopted by Reference); 62-210 (Permits Required, Public Notice, Reports, Stack Height Policy, Circumvention, Excess Emissions, and Forms); 62-212 (Preconstruction Review, PSD Review and BACT, and Non-attainment Area Review and LAER); 62-213 (Title V Air Operation Permits for Major Sources of Air Pollution); 62-296 (Emission Limiting Standards); 62-297 (Test Methods and Procedures, Continuous Monitoring Specifications, and Alternate Sampling Procedures).

General PSD Applicability

The Department regulates major air pollution sources in accordance with Florida's Prevention of Significant Deterioration (PSD) program, as approved by the EPA in Florida's State Implementation Plan and defined in Rule 62-212.400, F.A.C. A PSD review is required in areas currently in attainment with the state and federal Ambient Air Quality Standards (AAQS) or areas designated as "unclassifiable" for a given pollutant. A new facility is considered "major" with respect to PSD if it emits or has the potential to emit: 250 tons per year or more of any regulated air pollutant; or 100 tons per year or more of any regulated air pollutant and the facility belongs to one of the 28 PSD Major Facility Categories defined in Rule 62-210.200, F.A.C.; or 5 tons per year of lead.

For new projects at existing PSD-major sources, each regulated pollutant is reviewed for PSD applicability based on emissions thresholds known as the Significant Emission Rates defined in Rule 62-210.200, F.A.C. Pollutant emissions from the project exceeding these rates are considered "significant" and the applicant must employ the Best Available Control Technology (BACT) to minimize emissions of each such pollutant and evaluate the air quality impacts. Although a facility may be "major" with respect to PSD for only one regulated pollutant, it may be required to install BACT controls for several "significant" regulated pollutants.

PSD Applicability for Project

The Anclote Power Plant is an existing PSD-major facility located in Pasco County, which is an area that is currently in attainment with, or designated as "unclassifiable" for, each pollutant with a state or federal Ambient Air Quality Standard (AAQS). The applicant proposes to construct and operate two mechanical draft cooling towers to replace the existing cooling towers. The reuse of the existing circulating water pumps will result in no increases in throughput.

Emissions from the cooling towers are limited to PM and PM₁₀ emissions. Based on the application, future PM emissions are estimated to be 108 tpy operating 4500 hours per year. Because PM emissions will exceed over 25 tons per year, a PSD review for this project is required. PM₁₀ emissions were estimated to be only a fraction of this amount at less than one ton per year. The calculation was based upon the study, "Calculating Realistic PM₁₀ Emissions from Cooling Towers" by Joel Reisman and Gordon Frisbie. Based on the study, the authors of the paper contend PM₁₀ emissions increase with PM as the concentration of total dissolved solids (TDS) increases to about 4000 ppm. At TDS levels greater than 4000 ppm, the amount of PM₁₀ sized particles will decrease while PM continues to increase. The paper states that at higher TDS, the drift droplets contain more solids and therefore, upon evaporation, result in larger particles for any given initial droplet size.

Table 1 on the following page graphs the correlation of PM to PM₁₀ as the TDS of the water increases. With the estimated TDS of 29,000 ppm for the new cooling towers and a circulating flow rate of 660,000 gallons per minute, the report indicates large PM emissions with minimal PM₁₀ emissions as indicated in the application. The estimated PM₁₀ emissions do not exceed the 15 ton per year significant emission rate for PM₁₀.

The Department conducted a review of the BACT/RACT/LAER Clearinghouse for mechanical draft cooling towers between 2003 and 2006. Based upon the review the Department concludes that BACT for mechanical draft cooling towers is based upon drift eliminators. Additionally, BACT emission rates can be established as low as 0.0005% drift rate. It is noted that the lower end of the BACT range (0.0005%) is what the applicant has proposed as BACT for this project. In accordance with Rule 62-210.200(243), F.A.C., PM₁₀ emissions are below the PSD significant rate. Because PM was the only pollutant that triggered a PSD review, a Class II air quality impact analysis as well as additional analysis of impacts due to the proposed project on soils, vegetation, visibility, growth, and air quality related values (AQRV's) in the nearest PSD Class I areas were not conducted (Rule 62-204.260(1) and (2), F.A.C.). Therefore, no air quality analysis is required. The Department agrees with the applicant and the designed cooling towers will have a designed drift rate of 0.0005% for each tower installed to control PM/PM₁₀ emissions.

TECHNICAL EVALUATION AND BACT DETERMINATION

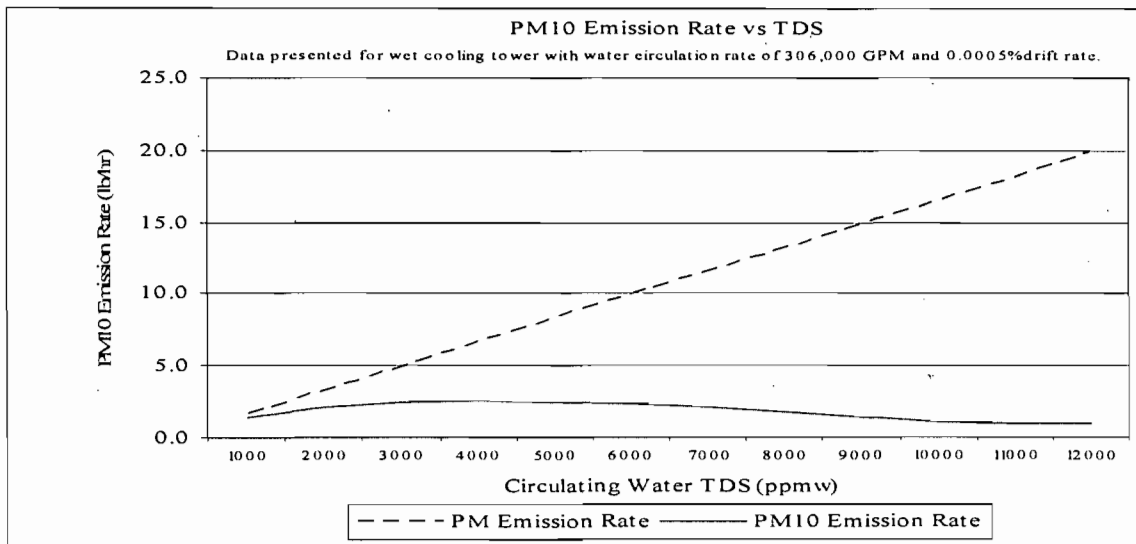


Table 1- PM10 emission rates vs. TDS

3. EMISSIONS STANDARDS

Brief Discussion of Emissions

The emission rates for PM and PM10 are not limited on a pound per hour or ton per year basis. Control for the unit will be based upon the design of the cooling towers to meet a drift rate of 0.0005%. However, operation of the unit will be limited to 4500 hours per year, which formed the basis for potential emissions in the application.

Draft Permit Requirements

Cooling Tower: The permittee is authorized to construct and operate two new mechanical draft cooling towers with the following nominal design characteristics: a circulating flow rate of 660,000 gallons per minute (330,000 gpm per tower); a design air flow of 36,000,000 acfm for both towers (18,000,000 per tower and 1,500,000 acfm per cell); drift eliminators and a drift rate of no more than 0.0005% of the circulating water flow for each tower. [Application No. 1010017-007-AC; Design]

Hours of Operation: The new cooling towers shall not operate more than 4500 hours per calendar year. [Application No. 1010017-007-AC]

Cooling Tower Design: The cooling towers shall be designed and maintained to achieve a drift rate of no more than 0.0005% of the circulating water flow. [Application 1010017-007-AC, Design]

Drift Rate: Within 60 days of commencing operation, the permittee shall notify the compliance authority that the cooling towers were constructed and installed to achieve the specific drift rate of no more than 0.0005% of the circulating flow rate. [Application 1010017-007-AC, Design]

Circulating Water Flow Rate: Upon request, the applicant shall provide a means for determining the circulating water flow rate through the new cooling tower. [Rule 62-4.070, F.A.C.]

Emissions Report: PM and PM10 emissions shall be reported as part of the annual operating report.

4. PRELIMINARY DETERMINATION

The Department makes a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations as conditioned by the draft permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant, and the conditions specified in the draft permit. No air quality modeling analysis is required because the project does not result in a significant increase in the PM10 emissions. Bobby Bull is the project engineer responsible for reviewing the application and drafting the permit. Additional details of this analysis may be obtained by contacting the project engineer at the Department's Bureau of Air Regulation at Mail Station #5505, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.



Jeb Bush
Governor

Department of Environmental Protection

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

Colleen M. Castille
Secretary

PERMITTEE:

Progress Energy Florida, Inc.
1729 Baillies Bluff Road
Holiday, FL 34691

Authorized Representative:
Jeff Swartz, Plant Manager

Anclote Power Plant Air Permit No. 1010017-007-AC (PSD-FL-379) Facility ID No. 1010017 SIC No. 4911 Permit Expires: 2 years from final permit

PROJECT AND LOCATION

This permit authorizes the construction of two new mechanical draft helper cooling towers to replace the existing helper cooling towers. The new equipment will be installed at Anclote Power Plant, which is located at 1729 Baillies Bluff Road, Holiday, in Pasco County, Florida. The UTM coordinates are Zone 17, 324.4 km East, and 3118.7 km North.

STATEMENT OF BASIS

This air pollution construction permit 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.). 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.

CONTENTS

- Section 1. General Information
- Section 2. Administrative Requirements
- Section 3. Emissions Units Specific Conditions
- Section 4. Appendices

(DRAFT)

Joseph Kahn, P.E., Acting Director
Division of Air Resource Management

(Date)

SECTION 1. GENERAL INFORMATION

FACILITY AND PROJECT DESCRIPTION

This facility consists of two fuel oil fired steam electric generating stations, E.U. ID No. -001 (Unit No. 1) and -002 (Unit No. 2). Unit No. 1 consists of a Combustion Engineering, Inc., Controlled Circulation, Radiant Reheat (CCRR) Type boiler/steam generator and steam turbine which drives a generator with a nameplate rating of 535 (summer)/540 (winter) Megawatts. Unit No. 2 consists of a Combustion Engineering, Inc., CCRR Type boiler/steam generator and steam turbine which drives a generator with a nameplate rating of 525 (summer)/530 (winter) Megawatts. Units No. 1 and No. 2 share a common stack. Also included in this permit are miscellaneous unregulated and insignificant emissions units and/or activities. Relocatable diesel fired generator(s) with a maximum heat input of 25.74 MMBtu/hour and a maximum rating of 2460 Kilowatts are permitted to be located at this facility and may be relocated to other Progress Energy facilities.

The project consists of the construction and operation of two helping cooling towers, Emission Unit 007, to replace the existing helper cooling towers. Each tower will consist of 12 cooling tower cells for a total of 24 cells total. Each cooling tower cell is expected to be approximately 50 to 59 feet in height and a stack height of approximately 10 to 14 feet on top of the cooling towers. Both towers will be designed from salt water corrosion resistant materials. Brackish water used for cooling has an estimated total dissolved solids (TDS) of approximately 29,000 parts per million. The existing circulating water pumps will be reused with no increase in throughput. These towers are used to reduce the discharge water temperature to meet the facility's current water permit requirements, and will be no more than 4500 hours. The cooling towers provide direct contact between the cooling water and air passing through the tower. Drift is created when small amounts of cooling water become entrained in the air stream and carried out of the tower. Drift eliminators are the control technology used to control PM/PM₁₀ emissions caused by the cooling tower drift.

ID	Emission Unit Description
007	Mechanical Draft Helper Cooling Towers with maximum circulation rate of 660,000 GPM.

REGULATORY CLASSIFICATION

Title III: The existing facility is identified as a major source of hazardous air pollutants (HAP).

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

Title V: The existing facility is a Title V major source of air pollution in accordance with Chapter 213, F.A.C.

PSD: The existing facility is a PSD-major facility in accordance with Rule 62-212.400, F.A.C.

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 additional information received to make it complete; the draft permit package including the Department's Technical Evaluation and Preliminary Determination; publication and comments; and the Department's Final Determination.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: All documents related to applications for permits to operate, construct, or modify emissions units regulated by this permit shall be submitted to the Bureau of Air Regulation of the Florida Department of Environmental Protection (DEP) at 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, 13051 Telecom Parkway, Temple Terrace, FL, 33637-0926 (Phone Number: 813/632-7600).
3. Appendices: The following Appendices are attached as part of this permit: Appendix CF (Citation Format); Appendix GC (General Conditions); and Appendix SC (Standard Conditions).
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise indicated in this permit, the construction and operation of the subject emissions unit shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403 of the Florida Statutes (F.S.); Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.). The terms used in this permit have specific meanings as defined in the applicable chapters of the Florida Administrative Code. The permittee shall use the applicable forms listed in Rule 62-210.900, F.A.C. and follow the application procedures in Chapter 62-4, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations. [Rules 62-204.800, 62-210.300 and 62-210.900, F.A.C.]
5. 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.]
6. Modifications: The permittee shall notify the Compliance Authority upon commencement of construction. No emissions unit or facility subject to this permit 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.]
7. Title V Permit: This permit authorizes construction of the permitted emissions units and initial operation to determine compliance with Department rules. A Title V operation permit is required for regular operation of the permitted emissions unit. The permittee shall apply for a Title V operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the appropriate Permitting Authority with copies to the Compliance Authority. [Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213, F.A.C.]
8. Annual Operation 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 March 1st of each year. [Rule 62-210.370(2), F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU-007 – Helper Cooling Towers

EMISSIONS UNITS

This section of the permit addresses the following emissions unit.

ID	Emission Unit Description
007	Mechanical Draft Helper Cooling Towers with maximum circulation rate of 660,000 GPM.

EQUIPMENT

1. Cooling Tower: The permittee is authorized to construct and operate two new mechanical draft cooling towers, 12 cells each, with the following nominal design characteristics: a circulating flow rate of 660,000 gallons per minute (330,000 gpm per tower); a design air flow of 36,000,000 acfm for both towers (18,000,000 per tower and 1,500,000 acfm per cell); drift eliminators and a drift rate of no more than 0.0005% of the circulating water flow for each tower. [Application No. 1010017-007-AC, Design]

PERFORMANCE RESTRICTIONS

2. Hours of Operation: Each new cooling tower shall not operate more than 4500 hours per calendar year. [Application No. 1010017-007-AC, Design]

EMISSIONS AND PERFORMANCE REQUIREMENTS

3. Cooling Tower Design: The cooling tower shall be designed and maintained to achieve a drift rate of no more than 0.0005% of the circulating water flow. [Application No. 1010017-007-AC, Design]

4. Drift Rate: Within 60 days of commencing operation, the permittee shall certify that the cooling towers were constructed and installed to achieve the specific drift rate of no more than 0.0005% of the circulating flow rate. [Application No. 1010017-007-AC, Design]

5. Circulating Water Flow Rate: Upon request, the applicant shall provide a means for determining the circulating water flow rate through the new cooling tower. [Rule 62-4.070, F.A.C.]

STATEMENT OF BASIS

Progress Energy Florida, Inc.
Anclote Power Plant
Facility ID No. 1010017
Pasco County

Title V Air Operation Permit Revision
DRAFT Permit Project No. 1010017-008-AV
Revision to Title V Air Operation Permit No. 1010017-006-AV

The renewal Title V Air Operation Permit, No. 1010017-006-AV, was issued on December 21, 2004. This Title V Air Operation Permit Revision is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210 and 62-213. The above named permittee is hereby authorized to operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

This existing facility consists of two fuel oil fired steam electric generating stations, E.U. ID No. -001 (Unit No. 1) and -002 (Unit No. 2). Unit No. 1 consists of a Combustion Engineering, Inc., Controlled Circulation, Radiant Reheat (CCR) Type boiler/steam generator and steam turbine which drives a generator with a nameplate rating of 535 (summer)/540 (winter) Megawatts. Unit No. 2 consists of a Combustion Engineering, Inc., CCR Type boiler/steam generator and steam turbine which drives a generator with a nameplate rating of 525 (summer)/530 (winter) Megawatts. Units No. 1 and No. 2 share a common stack. Also included in this permit are miscellaneous unregulated and insignificant emissions units and/or activities. Relocatable diesel fired generator(s) with a maximum heat input of 25.74 MMBtu/hour and a maximum rating of 2460 Kilowatts are permitted to be located at this facility and may be relocated to other Progress Energy facilities. CAM does not apply for any emission units at this facility.

Based on the Title V Air Operation Permit Revision application received July 12, 2006, this facility is a major source of hazardous air pollutants (HAPs).

The subject of this permit revision is to incorporate the terms and conditions of air construction permit, No. 1010017-007-AC, for two new mechanical draft cooling towers to replace the two existing cooling towers. The new units will be regulated units, and will be required to report annual PM and PM₁₀ emissions. The air construction permit is being processed concurrently with this permit revision. Construction of the new cooling towers has not begun, and a compliance plan will accompany this permit revision for the installation and proper operation of the new cooling towers. The compliance plan will require the permittee to certify that the cooling towers were constructed and installed to achieve the specific drift rate of no more than 0.0005% of the circulating flow rate within 60 days of commencing commercial operation.

Progress Energy Florida, Inc.
Anclote Power Plant
Facility ID No.: 1010017
Pasco County

Title V Air Operation Permit Revision
DRAFT Permit No.: 1010017-008-AV
Revision of Title V Air Operation Permit No.: 1010017-006-AV

Permitting Authority:

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

Mail Station #5505
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Telephone: 850/488-0114
Fax: 850/922-6979

Compliance Authority:

Department of Environmental Protection
Southwest District
13051 Telecom Parkway
Temple Terrace, Florida 33637-0926

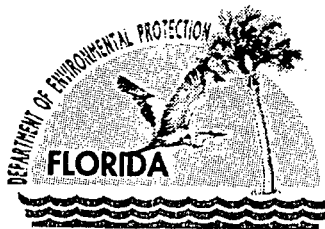
Telephone: 813/632-7600
Fax: 813/744-6458

Revisions are indicated by ~~striketrough~~ and underline

Title V Air Operation Permit Revision
DRAFT Permit No.: 1010017-008-AV
Revision of Title V Air Operation Permit No.: 1010017-006-AV

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Jeb Bush
Governor

Department of Environmental Protection

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

Colleen M. Castille
Secretary

Permittee:
Progress Energy Florida, Inc.
Anclote Power Plant

DRAFT Permit No.: 1010017-008-AV
Facility ID No.: 1010017
SIC Nos.: 4911
Project: Title V Air Operation Permit Revision

The purpose of this permit is to incorporate the conditions of Air Construction Permit 1010017-007-AV. This existing facility is located at 1729 Baillies Bluff Road, Holiday, Pasco County; UTM Coordinates: Zone 17, 324.4 km East and 3118.7 km North; and, Latitude: [28° 48' 17"] North and Longitude: [82° 47' 08"] West.

This Title V Air Operation Permit Revision is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210 and 62-213. The above named permittee is hereby authorized to operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

Referenced attachments made a part of this permit revision:

Appendix U-1, List of Unregulated Emissions Units and/or Activities
Appendix I-1, List of Insignificant Emissions Units and/or Activities
APPENDIX TV-4, TITLE V CONDITIONS version dated 02/12/02
APPENDIX SS-1, STACK SAMPLING FACILITIES (version dated 10/07/96)
Phase II Acid Rain Application/Compliance Plan received December 14, 1995

Effective Date: Day 55 in ARMS
Renewal Application Due Date: July 5, 2009
Expiration Date: December 31, 2009

Joseph Kahn, P.E., Acting Director
Division of Air Resource Management

JK/JFK/rlb

Section I. Facility Information.
Subsection A. Facility Description.

This facility consists of two fuel oil fired steam electric generating stations, E.U. ID No. -001 (Unit No. 1) and -002 (Unit No. 2). Unit No. 1 consists of a Combustion Engineering, Inc., Type CCRR boiler/steam generator and steam turbine which drives a generator with a nameplate rating of 535 (summer)/540 (winter) Megawatts. Unit No. 2 consists of a Combustion Engineering, Inc., Controlled Circulation, Radiant Reheat (CCRR) Type boiler/steam generator and steam turbine which drives a generator with a nameplate rating of 525 (summer)/530 (winter) Megawatts. Units No. 1 and No. 2 share a common stack. Unit 007 consists of two mechanical draft helper cooling towers designed with a circulating water flow rate of 660,000 gallons per minute and drift rate of 0.0005% to control PM/PM₁₀ emissions. Also included in this permit are miscellaneous unregulated and insignificant emissions units and/or activities. Relocatable diesel fired generator(s) with a maximum heat input of 25.74 MMBtu/hour and a maximum rating of 2460 Kilowatts are permitted to be located at this facility and may be relocated to other Progress Energy facilities.

Based on the initial Title V permit application received on May 14, 2004, this facility is a major source of hazardous air pollutants (HAPs).

Subsection B. Summary of Emissions Unit ID No(s). and Brief Description(s).

E.U. ID No.	Brief Description
-001	Fossil Fuel Fired Steam Generator # 1
-002	Fossil Fuel Fired Steam Generator # 2
-007	Mechanical Draft Helper Cooling Towers
-7775047-001	Relocatable Diesel Fired Generator(s)

Unregulated Emissions Units and/or Activities
-003 Surface Coating and Solvent Cleaning
-004 Fuel Storage Tanks
-005 Emergency Generators
-006 General Purpose Engines
~~-007 Helper Cooling Towers~~

Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.

Subsection C. Relevant Documents.

The documents listed below are not a part of this permit; however, they are specifically related to this permitting action.

These documents are provided to the permittee for information purposes only:

Table I-1, Summary of Air Pollutant Standards and Terms
Table I-2, Summary of Air Pollutant Standards and Terms
Table 2-1, Summary of Compliance Requirements
Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers
Appendix H-1, Permit History/ID Number Changes

These documents are on file with the permitting authority:

Initial Title V Permit Application received June 14, 1996.

Letter from Mr. Scott H. Osbourn dated and received by fax on October 13, 1997.

Phase II Acid Rain Application submitted on December 14, 1995.

Petition for Formal Administrative Hearing received September 4, 1997.

Notice of Withdrawal of Petition for Formal Administrative Hearing received December 15, 1998.

Letter from Mr. Scott H. Osbourn dated February 11, 1999.

EPA's Objection Letter dated July 12, 1999.

Department's response to EPA Objection Letter dated November 24, 1999.

Air Construction Permit No. 1010017-004-AC issued October 13, 1998.

Title V Permit Revision Application dated February 11, 2000.

Letter from the Florida Power Corporation dated May 12, 2000.

Title V Permit Renewal Application received May 14, 2004.

Air Construction Permit Application received May 9, 2006.

Title V Permit Revision Application received July 12, 2006.

Section II. Facility-wide Conditions.

The following conditions apply facility-wide:

1. APPENDIX TV-4, TITLE V CONDITIONS, is a part of this permit.
{Permitting note: APPENDIX TV-4, TITLE V CONDITIONS, is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided a copy when requested or otherwise appropriate.}
 2. **Not federally enforceable.** General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. The permittee shall not cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
[Rule 62-296.320(2), F.A.C.]
 3. General Particulate Emission Limiting Standards. General Visible Emissions Standard. Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C.
[Rule 62-296.320(4)(b)1. & 4., F.A.C.]
 4. Prevention of Accidental Releases (Section 112(r) of CAA).
 - a. The permittee shall submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center when, and if, such requirement becomes applicable. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to:
RMP Reporting Center
Post Office Box 1515
Lanham-Seabrook, MD 20703-1515
Telephone: 301/429-5018
 - and,
 - b. The permittee shall 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]
5. Unregulated Emissions Units and/or Activities. Appendix U-1, List of Unregulated Emissions Units and/or Activities, is a part of this permit.
[Rule 62-213.440(1), F.A.C.]
6. Insignificant Emissions Units and/or Activities. Appendix I-1, List of Insignificant Emissions Units and/or Activities, is a part of this permit.
[Rules 62-213.440(1), 62-213.430(6), and 62-4.040(1)(b), F.A.C.]
7. General Pollutant Emission Limiting Standards. Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. The permittee shall not store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds (VOC) or organic solvents (OS) without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department.
[Rule 62-296.320(1)(a), F.A.C.]

8. Not federally enforceable. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility shall include:

- a. Maintenance of paved areas as needed,
- b. Regular mowing of grass and care of vegetation, and
- c. Limiting access to plant property by unnecessary vehicles.

[Rule 62-296.320(4)(c)2., F.A.C.; Proposed by applicant in the initial Title V permit application received June 14, 1996]

9. When appropriate, any recording, monitoring, or reporting requirements that are time-specific shall be in accordance with the effective date of the permit, which defines day one.

[Rule 62-213.440, F.A.C.]

10. The permittee shall submit all compliance related notifications and reports required of this permit to the Department's Southwest District office:

Department of Environmental Protection
Southwest District Office
13051 Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813/632-7600
Fax: 813/744-6458

11. Any reports, data, notifications, certifications, and requests required to be sent to the United States Environmental Protection Agency, Region 4, should be sent to:

United States Environmental Protection Agency
Region 4
Air, Pesticides & Toxics Management Division
Air and EPCRA Enforcement Branch
Air Enforcement Section
61 Forsyth Street
Atlanta, Georgia 30303-8960
Telephone: 404/562-9155; Fax: 404/562-9163

12. Statement of Compliance. The annual statement of compliance pursuant to Rule 62-213.440(3), F.A.C., shall be submitted within sixty (60) days after the end of the calendar year.

{See condition No. 51., Appendix TV-3, Title V Conditions}

[Rule 62-214.420(11), F.A.C.]

13. Certification by Responsible Official (RO). In addition to the professional engineering certification required for applications by Rule 62-4.050(3), F.A.C., any application form, report, compliance statement, compliance plan and compliance schedule submitted pursuant to Chapter 62-213, F.A.C., shall contain a certification signed by a responsible official that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Any responsible official who fails to submit any required information or who has submitted incorrect information shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary information or correct information.

[Rule 62-213.420(4), F.A.C.]

Section III. Emissions Unit(s) and Conditions.

Subsection A. This section addresses the following emissions units.

E.U. ID No.	Brief Description
-001	Fossil Fuel Fired Steam Generator # 1
-002	Fossil Fuel Fired Steam Generator # 2

Fossil fuel fired steam generator # 1 is a nominal 535(summer)/540(winter) megawatt (electric) steam generator designated as Anclote Unit # 1. The emission unit is authorized to fire fuel oils Nos. 1 through No. 6, and on-specification used oil, with a nominal maximum heat input of 4964 MMBtu per hour. Pipeline quality natural gas may be fired alone or co-fired with fuel oil and shall be limited to a nominal maximum heat input of 2300 MMBtu per hour. Unit #1 is authorized to co-fire natural gas with fuel oils Nos. 1 through No. 6, and on-specification used oil, with a nominal maximum heat input of 5073 MMBtu per hour.

Fossil fuel fired steam generator # 2 is a nominal 525(summer)/530(winter) megawatt (electric) steam generator designated as Anclote Unit # 2. The emission unit is authorized to fire fuel oils Nos. 1 through No. 6, and on-specification used oil, with a nominal maximum heat input of 4850 MMBtu per hour. Pipeline quality natural gas may be fired alone or co-fired with fuel oil and shall be limited to a nominal maximum heat input rate of 2300 MMBtu per hour. Unit #2 is authorized to co-fire natural gas with fuel oils Nos. 1 through No. 6, and on-specification used oil, with a nominal maximum heat input of 4957 MMBtu per hour.

Each boiler/steam generator, units #1 and #2, drives a turbine generator and both units share a common 499 foot exhaust stack. Emissions from these units are uncontrolled.

{Permitting note(s): The emissions units are regulated under the Federal Acid Rain Program, and Rule 62-296.405, F.A.C., Fossil Fuel Steam Generators with More than 250 million Btu per Hour Heat Input. Fossil fuel fired steam generator # 1 began commercial operation on October 16, 1974; and, fossil fuel fired steam generator # 2 began commercial operation on October 31, 1978.}

The following specific conditions apply to the emissions units listed above:

Essential Potential to Emit (PTE) Parameters

A.1.1. Permitted Capacity. The maximum operation heat input rates are as follows:

Unit No.	MMBtu/hr Heat Input	Fuel Type
1	4964	No. 1, 2, 3, 4, 5, or 6 Fuel Oil, & On-Specification Used Oil*
1	2300	Natural Gas
1	5073	Natural Gas co-fired with No. 1, 2, 3, 4, 5, or 6 Fuel Oil, & On-Specification Used Oil
2	4850	No. 1, 2, 3, 4, 5, or 6 Fuel Oil, & On-specification Used Oil
2	2300	Natural Gas
2	4957	Natural Gas co-fired with No. 1, 2, 3, 4, 5, or 6 Fuel Oil, & On-Specification Used Oil

* The on-specification used oil burned at this facility may be generated on or off-site. [Rules 62-4.160(2), 62-210.200(PTE) and 62-296.405, F.A.C.; and, 1010017-004-AC, Specific Condition A.2.]

{Permitting note: The heat input limitations have been placed in each permit to identify the capacity of each unit for the purposes of confirming that emissions testing is conducted within 90 to 100 percent of the unit's rated capacity (or to limit future operation to 110 percent of the test load), to establish appropriate emission limits and to aid in determining future rule applicability. Regular record keeping is not required for heat input. Instead the owner or operator is expected to determine heat input whenever emission testing is required, to demonstrate at what percentage of the rated capacity that the unit was tested. Rule 62-297.310(5), F.A.C., included in the permit, requires measurement of the process variables for emission tests. Such heat input determination may be based on measurements of fuel consumption by various methods including but not limited to fuel flow metering or tank drop measurements, using the heat value of the fuel determined by the fuel vendor or the owner or operator, to calculate average hourly heat input during the test.} [Rule 62-4.160(2), and Rule 62-297.310(2), F.A.C.]

A.1.2. Low load operation. To minimize acid smut, at low load operation (less than 80 MW per unit), the use of natural gas shall be at least 40% of the heat input to the unit or 7,000 MMBtu/day, whichever is less. [0100017-004-AC, Specific Condition B.6.]

A.2. Emissions Unit Operating Rate Limitation After Testing. See specific condition A.22. [Rule 62-297.310(2), F.A.C.]

A.3.1. Methods of Operation. Fuel(s).

a. Startup: The only fuels allowed to be burned are pipeline quality natural gas and new No. 6 or lighter grades of fuel oils. On-specification used oil shall only be burned if the PCB's are less than 2 ppm and may be blended with new No. 6 or lighter grades of fuel oil. *Blending as means of achieving the 2-ppm level shall not be allowed.* The maximum sulfur content of fuel oils fired is 1.8 percent, by weight.

b. Normal: The only fuels allowed to be burned are pipeline quality natural gas, new No. 6 or lighter grades of fuel oils, and on-specification used oil. The maximum sulfur content of fuel oils fired is 1.8 percent, by weight.

c. The maximum amount of on-specification used oil, whether generated on or off-site, that can be burned facility-wide shall not exceed 10 percent of the heat input (monthly) or 30 million gallons per year cumulatively.

[Rule 62-213.410, F.A.C.; AO 51-254492A & 1010017-001-AO; and, 1010017-004-AC, Specific Conditions A.4. and B.4.]

A.3.2. Co-firing with Natural Gas. Co-firing natural gas with fuel oil having more than 1.8% sulfur content, by weight, as-fired, is prohibited.

[1010017-004-AC, Specific Condition D.3.]

A.4. Hours of Operation. These emissions units may operate continuously, i.e., 8,760 hours/year.

[Rule 62-210.200(PTE), F.A.C.]

Emission Limitations and Standards

{Permitting Note: The attached Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

A.5. Visible Emissions. Visible emissions shall not exceed 40 percent opacity. Emissions units governed by this visible emissions standard shall conduct a compliance test for particulate matter emissions annually. Failure of the facility to demonstrate compliance with the particulate matter allowable in specific condition A.7. or the opacity standard of this condition shall constitute grounds for revocation of this condition.

[Rule 62-296.405(1)(a), F.A.C.; and, OGC File Nos. 86-1574 and 86-1575/Orders dated December 11, 1986.]

A.6. Visible Emissions - Soot Blowing and Load Change. Visible emissions shall not exceed 60 percent opacity during the 3-hours in any 24 hour period of excess emissions allowed for boiler cleaning (soot blowing) and load change. Visible emissions above 60 percent opacity shall be allowed for not more than 4, six-minute averages during this 3-hour period. A load change occurs when the operational capacity of a unit is in the 10 percent to 100 percent capacity range, other than startup or shutdown, which exceeds 10 percent of the unit's rated capacity and which occurs at a rate of 0.5 percent per minute or more.

[Rule 62-210.700(3), F.A.C.]

A.7. Particulate Matter. Particulate matter emissions shall not exceed 0.1 pound per million Btu heat input, as measured by applicable compliance methods. See specific condition A.18.

{Permitting note: The averaging time for the particulate matter standard corresponds to the cumulative sampling time of the specified test method.}

[Rule 62-296.405(1)(b), F.A.C.]

A.8. Particulate Matter - Soot Blowing and Load Change. Particulate matter emissions shall not exceed an average of 0.3 pound per million Btu heat input during the 3-hours in any 24-hour period of excess emissions allowed for boiler cleaning (soot blowing) and load change.

{Permitting note: The averaging time for the particulate matter standard corresponds to the cumulative sampling time of the specified test method.}
[Rule 62-210.700(3), F.A.C.]

A.9. Sulfur Dioxide. When burning fuel oils, sulfur dioxide emissions shall not exceed 2.75 pounds per million Btu heat input, as measured by applicable compliance methods. See specific conditions **A.19.** and **A.20.**
[Rule 62-296.405(1)(c)1.j., F.A.C.]

A.10. Sulfur Dioxide - Sulfur Content. The sulfur content of fuel oils, on-specification used oil, or any combination of the two burned in these units, shall not exceed 1.8 percent, by weight, as-fired at the plant. The 12 month rolling average shall not exceed 1.5%, by weight. Co-firing natural gas with fuel oil having more than 1.8% sulfur content, by weight, as-fired, is prohibited. See specific condition **A.20.**
[Rule 62-296.405(1)(e)3., F.A.C.; 1010017-004-AC, Specific Conditions B.4. and D.3.; and, requested by the applicant in Title V Application dated June 12, 1996.]

Excess Emissions

A.11. Excess emissions resulting from malfunction shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration.
[Rule 62-210.700(1), F.A.C.]

A.12. Excess emissions resulting from startup or shutdown shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized.
[Rule 62-210.700(2), F.A.C.]

A.13. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited.
[Rule 62-210.700(4), F.A.C.]

Monitoring of Operations

A.14.1. Sulfur Dioxide. The permittee elected to demonstrate compliance by accepting a liquid fuel sulfur limit that will be verified with a fuel analysis provided by the vendor or permittee upon each fuel delivery. This protocol is allowed because the emissions units do not have an operating flue gas desulfurization device. See specific conditions **A.10.**, **A.19.** and **A.20.**
[Rule 62-296.405(1)(f)1.b., F.A.C.]

A.14.2. The following monitoring schedule for No. 1 – 6 fuel oil shall be followed: For all shipments of fuel oil received for the Anclote Power Plant Station, an analysis which reports the sulfur and ash content and heat content (HHV) of the fuel shall be provided by the fuel vendor or other sources which follow the appropriate fuel test methods listed in Specific Condition **A.20.1.** The analysis record shall specify the origin of the fuel sample, the methods by which the analyses were conducted, the person conducting the sampling and analysis, and the date of sampling and analysis.

[1010017-004-AC, Specific Condition F.2.]

A.15. Determination of Process Variables.

(a) Required Equipment. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.

(b) Accuracy of Equipment. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

[Rule 62-297.310(5), F.A.C.]

Test Methods and Procedures

{Permitting Note: The attached Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

A.16. Visible emissions. The test method for visible emissions shall be DEP Method 9, incorporated in Chapter 62-297, F.A.C. A transmissometer may be used and calibrated according to Rule 62-297.520, F.A.C. See specific condition A.17.

[Rule 62-296.405(1)(e)1., F.A.C.]

A.17. DEP Method 9. The provisions of EPA Method 9 (40 CFR 60, Appendix A) are adopted by reference with the following exceptions:

1. EPA Method 9, Section 2.4, Recording Observations. Opacity observations shall be made and recorded by a certified observer at sequential fifteen second intervals during the required period of observation.

2. EPA Method 9, Section 2.5, Data Reduction. For a set of observations to be acceptable, the observer shall have made and recorded, or verified the recording of, at least 90 percent of the possible individual observations during the required observation period. For single-valued opacity standards (e.g., 20 percent opacity), the test result shall be the highest valid six-minute average for the set of observations taken. For multiple-valued opacity standards (e.g., 20 percent opacity, except that an opacity of 40 percent is permissible for not more than two minutes per hour) opacity shall be computed as follows:

a. For the basic part of the standard (i.e., 20 percent opacity) the opacity shall be determined as specified above for a single-valued opacity standard.

b. For the short-term average part of the standard, opacity shall be the highest valid short-term average (i.e., two-minute, three-minute average) for the set of observations taken. In order to be valid, any required average (i.e., a six-minute or two-minute average) shall be based on all of the valid observations in the sequential subset of observations selected, and the selected subset shall contain at least 90 percent of the observations possible for the required averaging time. Each required average shall be calculated by summing the opacity value of each of the valid observations in the appropriate subset, dividing this sum by the number of valid observations in the subset, and rounding the result to the nearest whole number. The number of missing observations in the subset shall be indicated in parenthesis after the subset average value.

[Rule 62-297.401, F.A.C.]

A.18. Particulate Matter. The test methods for particulate emissions shall be EPA Methods 17, 5, 5B, or 5F, incorporated by reference in Chapter 62-297, F.A.C. The minimum sample volume shall be 30 dry standard cubic feet. EPA Method 5 may be used with filter temperature no more than 320 degrees Fahrenheit. For EPA Method 17, stack temperature shall be less than 375 degrees Fahrenheit. The owner or operator may use EPA Method 5 to demonstrate compliance. EPA Method 3 or 3A with Orsat analysis shall be used when the oxygen based F-factor, computed according to EPA Method 19, is used in lieu of heat input. Acetone wash shall be used with EPA Method 5 or 17.

[Rules 62-296.405(1)(e)2. and 62-297.401, F.A.C.]

A.19. Sulfur Dioxide. The test methods for sulfur dioxide emissions shall be EPA Methods 6, 6A, 6B, or 6C, incorporated by reference in Chapter 62-297, F.A.C. Fuel sampling and analysis may be used as an alternate sampling procedure if such a procedure is incorporated into the operation permit for the emissions unit. If the emissions unit obtains an alternate procedure under the provisions of Rule 62-297.620, F.A.C., the procedure shall become a condition of the emissions unit's permit. The Department will retain the authority to require EPA Method 6 or 6C if it has reason to believe that exceedances of the sulfur dioxide emissions limiting standard are occurring. Results of an approved fuel sampling and analysis program shall have the same effect as EPA Method 6 test results for purposes of demonstrating compliance or noncompliance with sulfur dioxide standards. **The permittee may use the EPA test methods, referenced above, to demonstrate compliance; however, as an alternate sampling procedure authorized by permit, the permittee elected to demonstrate compliance by accepting a liquid fuel sulfur limit that will be verified with a fuel analysis provided by the vendor upon each fuel delivery.** See specific conditions A.9., A.10. and A.20.

[Rules 62-213.440, 62-296.405(1)(e)3. and 62-297.401, F.A.C.; and, Permits 1010017-001-AO and AO 51-254492A.]

A.20.1. Sulfur Content of Liquid Fuel. The fuel sulfur content, percent by weight, for liquid fuels shall be evaluated using either ASTM D2622-94, ASTM D4294-90 (95), ASTM D1552-95, ASTM D1266-91, or both ASTM D4057-88 and ASTM D129-95, or the latest edition(s).

[Rules 62-213.440; 62-296.405(1)(e)3, 62-296.405(1)(f)1.b. and 62-297.440, F.A.C.; and, 1010017-004-AC, Specific Conditions D.3. and D.6.]

A.20.2. Gross heating value of fuel oil. All fuel oil delivered to the facility shall be analyzed using ASTM D240-76 (or equivalent) to record the gross heating value (HHV). Analysis may be performed by the owner or operator, a service contractor retained by the owner or operator, the fuel vendor, or any other qualified agency.

[1010017-004-AC, Specific Condition D.5.]

A.20.3. Compliance with the liquid fuel sulfur limit shall be verified by a fuel analysis provided by the vendor or obtained by Progress Energy Florida, Inc. (PEF) upon each fuel delivery with the following exception: In cases where No. 6 fuel oil is received with a sulfur content exceeding 1.5%, by weight, and blending is required to obtain a fuel mix equal to the applicable percent sulfur limit, an analysis of a fuel sample representative of fuel from the fuel storage tanks shall be obtained by PEF prior to firing oil at the plant. Reports of percent sulfur content of these analyses shall be maintained at the power plant facility.

[1010017-004-AC, Specific Condition D.6.]

A.20.4. The owner or operator shall maintain records of the as-fired oil heating value, density or specific gravity, and the percent sulfur content.
[1010017-004-AC, Specific Condition D.6.]

A.21. Required Number of Test Runs. For mass emission limitations, a compliance test shall consist of three complete and separate determinations of the total air pollutant emission rate through the test section of the stack or duct and three complete and separate determinations of any applicable process variables corresponding to the three distinct time periods during which the stack emission rate was measured provided, however, that three complete and separate determinations shall not be required if the process variables are not subject to variation during a compliance test, or if three determinations are not necessary in order to calculate the unit's emission rate. The three required test runs shall be completed within one consecutive five day period. In the event that a sample is lost or one of the three runs must be discontinued because of circumstances beyond the control of the owner or operator, and a valid third run cannot be obtained within the five day period allowed for the test, the Secretary or his or her designee may accept the results of the two complete runs as proof of compliance, provided that the arithmetic mean of the results of the two complete runs is at least 20 percent below the allowable emission limiting standards.

[Rule 62-297.310(1), F.A.C.]

A.22. Operating Rate During Testing. Testing of emissions shall be conducted with the emissions unit operation at permitted capacity, which is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the emissions unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.

[Rules 62-297.310(2) & (2)(b), F.A.C.]

A.23. Calculation of Emission Rate. The indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the separate test runs unless otherwise specified in a particular test method or applicable rule.

[Rule 62-297.310(3), F.A.C.]

A.24. Applicable Test Procedures.

(a) **Required Sampling Time.**

1. Unless otherwise specified in the applicable rule, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes.

2. **Opacity Compliance Tests.** The required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Exceptions to these requirements are as follows:

c. The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.

- (b) Minimum Sample Volume. The minimum sample volume per run shall be 30 dry standard cubic feet.
- (c) Required Flow Rate Range. For EPA Method 5 particulate sampling, acid mist/sulfur dioxide, and fluoride sampling which uses Greenburg Smith type impingers, the sampling nozzle and sampling time shall be selected such that the average sampling rate will be between 0.5 and 1.0 actual cubic feet per minute, and the required minimum sampling volume will be obtained.
- (d) Calibration of Sampling Equipment. Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1.
- (e) Allowed Modification to EPA Method 5. When EPA Method 5 is required, the following modification is allowed: the heated filter may be separated from the impingers by a flexible tube. [Rule 62-297.310(4), F.A.C.]

A.25. Required Stack Sampling Facilities. When a mass emissions stack test is required, the permittee shall comply with the requirements contained in Appendix SS-1, Stack Sampling Facilities, attached to this permit.
[Rule 62-297.310(6), F.A.C.]

A.26. Frequency of Compliance Tests. The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.

(a) General Compliance Testing.

2. For excess emission limitations for particulate matter specified in Rule 62-210.700, F.A.C., a compliance test shall be conducted annually while the emissions unit is operating under soot blowing conditions in each federal fiscal year during which soot blowing is part of normal emissions unit operation, except that such test shall not be required in any federal fiscal year in which a fossil fuel steam generator does not burn liquid for more than 400 hours other than during startup.

3. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to Rule 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:

- a. Did not operate; or
- b. In the case of a fuel burning emissions unit, burned liquid fuel for a total of no more than 400 hours.

4. During each federal fiscal year (October 1 - September 30), unless otherwise specified by rule, order,

or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:

- a. Visible emissions, if there is an applicable standard;
- b. Each of the following pollutants, if there is an applicable standard, and if the emissions unit emits or has the potential to emit: 5 tons per year or more of lead or lead compounds measured as elemental lead; or 100 tons per year or more of any other regulated air pollutant.

5. An annual compliance test for particulate matter emissions shall not be required for any fuel burning emissions unit that, in a federal fiscal year, does not burn liquid fuel, other than during startup, for a total of more than 400 hours.

6. The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test,

and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

(b) Special Compliance Tests. When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.

(c) Waiver of Compliance Test Requirements. If the owner or operator of an emissions unit that is subject to a compliance test requirement demonstrates to the Department, pursuant to the procedure established in Rule 62-297.620, F.A.C., that the compliance of the emissions unit with an applicable weight emission limiting standard can be adequately determined by means other than the designated test procedure, such as specifying a surrogate standard of no visible emissions for particulate matter sources equipped with a bag house or specifying a fuel analysis for sulfur dioxide emissions, the Department shall waive the compliance test requirements for such emissions units and order that the alternate means of determining compliance be used, provided, however, the provisions of Rule 62-297.310(7)(b), F.A.C., shall apply.
[Rule 62-297.310(7), F.A.C.; and, SIP approved]

TABLE 297.310-1
CALIBRATION SCHEDULE

ITEM	MINIMUM CALIBRATION FREQUENCY	REFERENCE INSTRUMENT	TOLERANCE
Liquid in glass thermometer	Annually	ASTM Hg in glass ref. thermometer or equivalent, or thermometric points	+/-2%
Bimetallic thermometer	Quarterly	Calib. liq. in glass thermometer	5 degrees F
Thermocouple	Annually	ASTM Hg in glass ref. thermometer, NBS calibrated reference and potentiometer	5 degrees F
Barometer	Monthly	Hg barometer or NOAA station	+/-1% scale
Pitot Tube	When required or when damaged	By construction or measurements in wind tunnel D greater than 16" and standard pitot tube	See EPA Method 2, Fig. 2-2 & 2-3
Probe Nozzles	Before each test or when nicked, dented, or corroded	Micrometer	+/-0.001" mean of at least three readings Max. deviation between readings .004"
Dry Gas Meter and Orifice Meter	1. Full Scale: When received, When 5% change observed, Annually 2. One Point: Semiannually 3. Check after each test series	Spirometer or calibrated wet test or dry gas test meter	2%
		Comparison check	5%

A.27. Compliance Testing for Visible Emissions. By this permit, annual emissions compliance testing for visible emissions is not required for these emissions units while burning only liquid fuel(s) for less than 400 hours per year.
[Rule 62-297.310(7)(a)4., F.A.C.]

A.28. Compliance Testing for PM. Annual and permit renewal compliance testing for particulate matter emissions is not required for these emissions units while burning only liquid fuel(s) for less than 400 hours per year.
[Rules 62-297.310(7)(a)3. & 5., F.A.C.]

Recordkeeping and Reporting Requirements

A.29. Excess Emissions Notification. In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department's Southwest District Office in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department's Southwest District Office.
[Rule 62-210.700(6), F.A.C.]

A.30. Submit to the Department's Southwest District Office a written report of emissions in excess of emission limiting standards as set forth in Rule 62-296.405(1), F.A.C., for each calendar quarter. The nature and cause of the excess emissions shall be explained. This report does not relieve the owner or operator of the legal liability for violations. All recorded data shall be maintained on file by the Source for a period of five years.
[Rules 62-213.440 and 62-296.405(1)(g), F.A.C.]

A.31. Test Reports.

(a) The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department's Southwest District Office on the results of each such test.

(b) The required test report shall be filed with the Department's Southwest District Office as soon as practical but no later than 45 days after the last sampling run of each test is completed.

(c) The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department's Southwest District Office to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information:

1. The type, location, and designation of the emissions unit tested.
2. The facility at which the emissions unit is located.
3. The owner or operator of the emissions unit.
4. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
5. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission-limiting standard.

6. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.

7. A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.

8. The date, starting time and duration of each sampling run.

9. The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.

10. The number of points sampled and configuration and location of the sampling plane.

11. For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.

12. The type, manufacturer and configuration of the sampling equipment used.

13. Data related to the required calibration of the test equipment.

14. Data on the identification, processing and weights of all filters used.

15. Data on the types and amounts of any chemical solutions used.

16. Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.

17. The names of individuals who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.

18. All measured and calculated data required to be determined by each applicable test procedure for each run.

19. The detailed calculations for one run that relate the collected data to the calculated emission rate.

20. The applicable emission standard, and the resulting maximum allowable emission rate for the emissions unit, plus the test result in the same form and unit of measure.

21. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the Department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.

[Rules 62-213.440 and 62-297.310(8), F.A.C.]

A.32.1. COMS for Periodic Monitoring. The owner or operator is required to install continuous opacity monitoring systems (COMS) pursuant to 40 CFR Part 75. The owner or operator shall maintain and operate COMS and shall make and maintain records of opacity measured by the COMS, for purposes of periodic monitoring.

[Rule 62-213.440, F.A.C.]

A.32.2. The permittee shall install, calibrate, maintain, and operate a continuous emission monitor in the stack to measure and record the nitrogen oxides emissions, sulfur dioxide emissions, and opacity from Units 1 and 2. The continuous emissions monitoring systems must comply with the certification and quality assurance, and other applicable requirements from 40 CFR 75. Periods of startup, shutdown, malfunction, and fuel switching shall be monitored, recorded, and reported as excess emissions when emission levels exceed the standards in Specific Conditions **A.5.**, **A.7.**, and **A.10.** following the format of 40 CFR 60.7.

[1010017-004-AC, Specific Condition F.1.]

Additional limitations for On-Specification Used Oil

A.33. On-specification used oil generated at this facility or off-site may only be burned in these emissions units if compliance with all the conditions of this permit and the following additional conditions are demonstrated:

- a. On-specification Used Oil Allowed as Fuel: This permit allows the burning of used fuel

oil meeting EPA "on-specification" used oil specifications, with a maximum sulfur content of 2.5 percent, by weight, and a PCB concentration of less than 50 ppm. On-specification used oil shall meet the following specifications [40 CFR 279, Subpart B.]

1. Arsenic shall not exceed 5.0 ppm;
2. Cadmium shall not exceed 2.0 ppm;
3. Chromium shall not exceed 10.0 ppm;
4. Lead shall not exceed 100.0 ppm;
5. Total halogens shall not exceed 1000 ppm;
6. Flash point shall not be less than 100 degrees F.

Used oil that does not meet the specifications for on-specification used oil shall not be burned at this facility.

b. Quantity Limited: The maximum amount of on-specification used oil, whether generated on or off-site, that can be burned facility-wide shall not exceed 10 percent of the heat input (monthly) or 30 million gallons per year cumulatively.

c. Used Oil Containing PCBs \geq 50 ppm Not Allowed: Used oil containing a PCB concentration of 50 ppm or greater shall not be burned at this facility. Used oil shall not be blended to meet this requirement or any part of this condition.

d. PCB Concentration of 2 to 50 ppm: On-specification used oil with a PCB concentration of 2 to less than 50 ppm shall be burned only at normal source operating temperatures. On specification used oil with a PCB concentration of 2 to less than 50 ppm shall not be burned during periods of startup or shutdown.

Before accepting from each marketer the first shipment of on-specification used oil with a PCB concentration of 2 to less than 50 ppm, the owner or operator shall provide each marketer with a one-time written and signed notice certifying that the owner or operator will burn the used oil in a qualified combustion device. The notice must state that EPA or a RCRA-delegated state agency has been given a description of the used oil management activities at the facility and that an industrial boiler or furnace will be used to burn the used oil with a PCB concentration of 2 to less than 50 ppm. The description of the used oil management activities shall be submitted to the Administrator, Hazardous Waste Regulation Section, Florida Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, FL 32399-2400. [40 CFR 279 and 761.20(e)]

e. Certification Required: The owner or operator shall receive from the marketer, for each load of used oil received, a certification that the used oil meets the specifications for on-specification used oil and contains a PCB concentration of less than 50 ppm. This certification shall also describe the basis for the certification, such as analytical results. Note that a claim that used oil does not contain quantifiable levels of PCBs (that is, that the used oil contains less than 2 ppm of PCBs) must be documented by testing or other information. The first person making the claim that the used oil does not contain PCBs is responsible for furnishing the documentation. The documentation can be tests, personal or special knowledge of the source and composition of the used oil, or a certification from the person generating the used oil claiming that the used oil contains no detectable PCBs.

- f. Testing Required: If the owner or operator does not receive certification from the marketer as described above, the owner or operator shall properly sample and test each load of used oil received for the following parameters:

Arsenic, cadmium, chromium, lead, total halogens, flash point, PCBs*, and percent sulfur content by weight, ash, and BTU value (BTU per gallon).

Testing (sampling, extraction and analysis) shall be performed using approved methods specified in EPA Publication SW-846 (Test Methods for Evaluating Solid Waste, Physical/Chemical Methods).

* Testing for PCB's is not necessary if quantifiable levels are less than 2 ppm (Refer to specific condition A.33.e. above)

If the owner or operator relies on certification from the marketer, the owner or operator shall be responsible for ensuring that the certification complies with all the requirements of this condition and all conditions of this permit.

If the analytical results show that the used oil does not meet the specification for on-specification used oil, or that it contains a PCB concentration greater than or equal to 50 ppm, the owner or operator shall immediately notify and provide the analytical results to the Department's Southwest District Office. The owner or operator shall immediately cease burning the used oil.

- g. Special Recordkeeping Requirements: The owner or operator shall obtain, make, and keep the following records related to the use of used oil: [40 CFR 761.20(e)]

- (1) The gallons of on-specification used oil received and burned each month. (This record shall be completed no later than the fifteenth day of the succeeding month.)
- (2) The total gallons of on-specification used oil burned in the preceding calendar year.
- (3) The name and address of all marketers delivering used oil to the facility.
- (4) Copies of the marketer certifications, if obtained, and any supporting information.
- (5) Documentation that the used oil contains less than 2 ppm PCBs, if claimed, including the name and address of the person making the claim.
- (6) Results of the analyses required above.
- (7) A copy of the notice to EPA and a copy of the one-time written notice provided to each marketer.

The records shall be retained in a form suitable for inspection at the facility by the Department, and shall be retained for 5 years.

- h. Reporting Required: The owner or operator shall submit, with the Annual Operation Report (AOR) form, the total amount of on-specification used oil burned during the previous calendar year to the Southwest District Office.

[Rules 62-4.070(3), 62-212.400(2)(f)1. and 62-213.440, F.A.C.; and, AO 51-254492A & 1010017-001-AO]

Section III. Emissions Units and Conditions.

Subsection B. This section addresses the following emissions units.

E.U. ID No.	Brief Description
-7775047-001	Relocatable Diesel Fired Generator(s)

The relocatable diesel generator(s) will have a maximum (combined) heat input of 25.74 MMBtu/hour while being fueled by 186.3 gallons per hour of new No. 2 fuel oil with a maximum (combined) rating of 2460 kilowatts. Emissions from the generator(s) are uncontrolled. These conditions were requested in the Initial Title V Permit Application for the Anclote Power Plant received June 14, 1996. The generator(s) may be relocated at this facility and any of the following facilities:

1. Crystal River Plant, Powerline Road, Red Level, Citrus County.
2. Bartow Plant, Weedon Island, St. Petersburg, Pinellas County.
3. Anclote Power Plant, 1729 Baillies Bluff Road, Holliday, Pasco County.
4. Bayboro Plant, 13th Ave. & 2nd St. South, St. Petersburg, Pinellas County.
5. Wildwood Reclamation Facility, State Road 462, 1 mi. east of U.S. 301, Wildwood, Sumter County.
6. Hines Energy Complex, County Road 555, 1 mi. southwest of Homeland, Polk County.

{Permitting notes: These emissions units are regulated under Rule 62-210.300, F.A.C., Permits Required. Each generator has its own stack.}

The following specific conditions apply to the emissions units listed above regardless of location:

Essential Potential to Emit (PTE) Parameters

B.1. These conditions become active and enforceable once PEF has given notification to the SWD of the Department of Environmental Protection, if appropriate, that these units will be relocated to this facility.
 [Rule 62-4.070(3), F.A.C.; Anclote Power Plant Permit AC 09-202080; and, Initial Title V Permit Application for the Anclote Power Plant received June 14, 1996.]

B.2. Permitted Capacity. The maximum operation heat input rates are as follows:
 [Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

Unit No.	MMBtu/hr/generator(s) Heat Input	Fuel Type
-7775047 -001	25.74	New Low Sulfur No. 2 Fuel Oil

B.3. Emissions Unit Operating Rate Limitation After Testing. See specific condition **B.14.**
 [Rule 62-297.310(2), F.A.C.]

B.4. Methods of Operation - Fuels. Only new low sulfur No. 2 fuel oil shall be fired in the diesel generator(s).
 [Rule 62-213.410, F.A.C.]

B.5. Hours of Operation. The hours of operation expressed as “engine-hours” shall not exceed 2970 hours in any consecutive 12 month period. The total hours of operation expressed as “engine-hours” shall be the summation of the individual hours of operation of each generator. [Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; and, Anclote Power Plant Permit AO 09-205952.]

Emission Limitations and Standards

{Permitting Note: The attached Table 1-4, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

B.6. Visible Emissions. Visible emissions from each generator shall not be equal to or greater than 20 percent opacity. [Rule 62-296.320(4)(b)1., F.A.C.; and, Anclote Power Plant Permit AO 09-205952.]

B.7. Sulfur Dioxide - Sulfur Content. The sulfur content of the new No. 2 fuel oil shall not exceed 0.50 percent, by weight. [Requested in initial Title V permit application dated June 14, 1996; and, Anclote Power Plant Permit AC 09-202080.]

Excess Emissions

B.8. Excess emissions from these emissions units resulting from startup, shutdown or malfunction shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C.]

B.9. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

Monitoring of Operations

B.10. The permittee shall demonstrate compliance with the liquid fuel sulfur limit by means of a fuel analysis provided by the vendor or permittee upon each fuel delivery. See specific condition

B.13.

[Rule 62-213.440, F.A.C.]

B.11. Determination of Process Variables.

(a) **Required Equipment.** The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.

(b) **Accuracy of Equipment.** Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured

with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

[Rule 62-297.310(5), F.A.C.]

Test Methods and Procedures

{Permitting Note: The attached Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

B.12. The test method for visible emissions shall be EPA Method 9, incorporated and adopted by reference in Chapter 62-297, F.A.C.

[Rules 62-296.320(4)(b)4.a. and 62-297.401, F.A.C.]

B.13. The fuel sulfur content, percent by weight, for liquid fuels shall be evaluated using either ASTM D2622-94, ASTM D4294-90, both ASTM D4057-88 and ASTM D129-95, ASTM D1552-95 or equivalent method, or the latest edition(s).

[Rules 62-213.440 and 62-297.440, F.A.C.]

B.14. Operating Rate During Testing. Testing of emissions shall be conducted with the generator(s) operating at 90 to 100 percent of the maximum fuel firing rate of 186.3 gallons per hour. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity (i.e., at less than 90 percent of the maximum operation rate allowed by the permit); in this case, subsequent emissions unit operations may be limited to 110 percent of the test load until a new test is conducted, provided however, operations do not exceed 100 percent of the maximum operation rate allowed by the permit. Once the emissions unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity. Failure to submit the actual operating rate may invalidate the test.

[Rules 62-297.310(2), F.A.C.; and, Anclote Power Plant Permit AO 09-205952.]

B.15. Applicable Test Procedures.

(a) **Required Sampling Time.**

2. **Opacity Compliance Tests.** The required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Exceptions to these requirements are as follows:

c. The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.

[Rule 62-297.310(4)(a)2.c., F.A.C.]

B.16. Frequency of Compliance Tests. The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.

(a) General Compliance Testing.

3. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to Rule 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:
 - a. Did not operate; or
 - b. In the case of a fuel burning emissions unit, burned liquid fuel for a total of no more than 400 hours.
4. During each federal fiscal year (October 1 - September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:
 - a. Visible emissions, if there is an applicable standard;
8. Any combustion turbine that does not operate for more than 400 hours per year shall conduct a visible emissions compliance test once per each five-year period, coinciding with the term of its air operation permit.
9. The owner or operator shall notify the Southwest District Office at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

(b) Special Compliance Tests. When the Department of Environmental Protection, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the appropriate D.E.P. office.

(c) Waiver of Compliance Test Requirements. If the owner or operator of an emissions unit that is subject to a compliance test requirement demonstrates to the Department, pursuant to the procedure established in Rule 62-297.620, F.A.C., that the compliance of the emissions unit with an applicable weight emission limiting standard can be adequately determined by means other than the designated test procedure, such as specifying a surrogate standard of no visible emissions for particulate matter sources equipped with a bag house or specifying a fuel analysis for sulfur dioxide emissions, the Department shall waive the compliance test requirements for such emissions units and order that the alternate means of determining compliance be used, provided, however, the provisions of Rule 62-297.310(7)(b), F.A.C., shall apply.
[Rule 62-297.310(7), F.A.C.; SIP approved; and, Anclote Power Plant Permit AO 09-205952.]

B.17. Visible Emissions Testing - Annual. By this permit, annual emissions compliance testing for visible emissions is not required for these emissions units while burning liquid fuels for less than 400 hours per year.

[Rules 62-297.310(7)(a)4. & 8., F.A.C.]

B.18. After each relocation, each generator shall be tested within 30 days of startup for opacity and the fuel shall be analyzed for the sulfur content. See specific conditions **B.6.**, **B.7.**, **B.10.**, **B.13.**, and **B.14.**

[Rules 62-4.070(3) and 62-297.310(7)(b), F.A.C.; and, Anclote Power Plant Permit AO 09-205952.]

Recordkeeping and Reporting Requirements

B.19. Malfunction Reporting. In the case of excess emissions resulting from malfunctions, the owner or operator shall notify the Southwest District Office of the Department of Environmental Protection in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested.

[Rule 62-210.700(6), F.A.C.]

B.20. Test Reports.

- (a) Each generator shall be tested on an annual basis within 30 days of the date October 25.
- (b) The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Southwest District Office on the results of each such test.
- (c) The required test report shall be filed with the Southwest District Office as soon as practical but no later than 45 days after the last sampling run of each test is completed.
- (d) The test reports for a unit that has been relocated shall be submitted to the Department office that will handle compliance issues for the new location within 45 days of testing.

[Rule 62-297.310(8), F.A.C.; and, Anclote Power Plant Permit AO 09-25952.]

B.21. To demonstrate compliance with specific condition **B.5.**, records shall indicate the daily hours of operation for each diesel generator, the daily hours of operation expressed as “engine-hours”, and a cumulative total hours of operation expressed as “engine hours” for each month. The records shall be maintained for a minimum of 5 years and made available to the Southwest District Office upon request.

[Rules 62-213.440 and 62-297.310(8), F.A.C.; and, Anclote Power Plant Permit AO 09-205952.]

B.22. To demonstrate compliance with specific condition **B.7.**, records of the sulfur content, in percent by weight, of all the fuel burned shall be kept based on either vendor provided as-delivered or as-received fuel sample analysis. The records shall be maintained for a minimum of 5 years and made available to the Southwest District Office upon request.

[Rule 62-297.310(8), F.A.C.; and, AO 09-205952.]

B.23. Although these emission units are relocatable, each facility is required to maintain all appropriate records at each site.

[Rule 62-4.070(3), F.A.C.]

Section III. Emissions Unit and Conditions.

Subsection C. This section addresses the following emissions units.

<u>E.U. ID No.</u>	<u>Brief Description</u>
<u>-007</u>	<u>Mechanical Draft Helper Cooling Towers</u>

Two Mechanical Draft Helper Cooling Towers have a combined maximum circulation rate of 660,000 GPM. The design air flow is 36,000,000 acfm for both towers (18,000,000 per tower and 1,500,000 acfm per cell). The drift eliminators are designed for a drift rate of no more than 0.0005% of the circulating water flow for each tower.

{Permitting note: These emissions units are regulated under 62-3213.200, F.A.C., General Preconstruction Review Requirements; 62-212.400, F.A.C., Prevention of Significant Deterioration; Rule 62-296.320, F.A.C.}

C.1. Hours of Operation: Each new cooling tower shall not operate more than 4500 hours per calendar year.

[Air Construction Permit No. 1010017-007-AC]

C.2. Cooling Tower Design: The cooling tower shall be designed and maintained to achieve a drift rate of no more than 0.0005% of the circulating water flow.

[Air Construction Permit No. 1010017-007-AC; Design]

C.3. Circulating Water Flow Rate: Upon request, the applicant shall provide a means for determining the circulating water flow rate through the new cooling tower. [Rule 62-4.070, F.A.C.]

Section IV. This section is the Acid Rain Part.

Operated by: Florida Power Corporation

ORIS code: 8048

Subsection A. This subsection addresses Acid Rain, Phase II.

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

E.U. ID No.	Description
-001	Fossil Fuel Fired Steam Generator No. 1
-002	Fossil Fuel Fired Steam Generator No. 2

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

a. DEP Form No. 62-210.900(1)(a), dated May 14, 2004.

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

2. Sulfur dioxide (SO₂) allowance allocations for each Acid Rain unit:

E.U. ID No.	EPA I.D.	Year	2005	2006	2007	2008	2009
-001	1	SO ₂ allowances, under Table 2 of 40 CFR 73	13022*	13022*	13022*	13022*	13022*
-002	2	SO ₂ allowances, under Table 2 of 40 CFR 73	12950*	12950*	12950*	12950*	12950*

*The number of allowances held by an Acid Rain source in a unit account may differ from the number allocated by the USEPA under Table 2 of 40 CFR 73.

3. Emission Allowances. 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.

a. 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 62-213.440(3), F.A.C.

b. No limit shall be placed on the number of allowances held by the source under the Federal Acid Rain program.

c. Allowances shall be accounted for under the Federal Acid Rain Program.

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

c. Allowances shall be accounted for under the Federal Acid Rain Program.
[Rule 62-213.440(1)(c), F.A.C.]

4. Fast-Track Revisions of Acid Rain Parts. Those Acid Rain sources making a change described in Rule 62-214.370(4), F.A.C., may request such changes as provided in Rule 62-213.413, Fast-Track Revisions of Acid Rain Parts.
[Rules 62-213.413 and 62-214.370(4), F.A.C.]

5. Comments, notes, and justifications: None.

6. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be incorporated into the permit and shall be enforceable by the Administrator.
[40 CFR 70.6(a)(4)(i); and, Rule 62-210.200, Definitions - Applicable Requirements, F.A.C.]

**Progress Energy Florida, Inc.
Anclote Power Plant
Compliance Plan CP-1**

The permittee is authorized to construct and operate two new mechanical draft cooling towers, 12 cells each, with the following nominal design characteristics: a circulating flow rate of 660,000 gallons per minute (330,000 gpm per tower); a design air flow of 36,000,000 acfm for both towers (18,000,000 per tower and 1,500,000 acfm per cell); drift eliminators and a drift rate of no more than 0.0005% of the circulating water flow for each tower.

[Air Construction Permit 1010017-007-AC]

Within 60 days of commencing operation, the permittee shall certify that the cooling towers were constructed and installed to achieve the specific drift rate of no more than 0.0005% of the circulating flow rate.

[Air Construction Permit 1010017-007-AC]

Appendix U-1. List of Unregulated Emissions Units and/or Activities.

Unregulated Emissions Units and/or Activities. An emissions unit which emits no “emissions-limited pollutant” and which is subject to no unit-specific work practice standard, though it may be subject to regulations applied on a facility-wide basis (e.g., unconfined emissions, odor, general opacity) or to regulations that require only that it be able to prove exemption from unit-specific emissions or work practice standards.

The below listed emissions units and/or activities are neither ‘regulated emissions units’ nor ‘insignificant emissions units’.

Emissions Unit	Description
-003	Surface Coating and Solvent Cleaning
-004	Fuel Storage Tanks
-005	Emergency Generators
-006	General Purpose Engines
-007	Helper Cooling Towers

Appendix H-1, Permit History/ID Number Changes

Progress Energy Florida, Inc.
Anclote Power Plant

DRAFT Permit No.: 1010017-008-AV
Facility ID No.: 1010017

Permit History (for tracking purposes):

E.U. ID No	Description	Permit No.	Issue Date	Expiration Date	Extended Date ^{1,2}	Revised Date(s)
-001	Fossil Fuel Fired Steam Generator # 1	AO51-254492	03/7/1995	03/6/1999		
		AO51-254492A	1/31/1996	03/6/2000		
		1010017-004-AC	10/13/98	12/1/1999		
		1010017-003-AV	1/1/2000	12/31/2004		
		1010017-006-AV	1/1/2005	12/31/2009		
-002	Fossil Fuel Fired Steam Generator # 2	AO51-169340	12/21/1989	12/18/1994	08/14/1996	01/31/1996
		1010017-001-AO	01/31/1996	12/31/2004		
		1010017-004-AC	10/13/98	12/1/1999		
		1010017-003-AV	1/1/2000	12/31/2004		
		1010017-006-AV	1/1/2005	12/31/2009		
-007	Helper Cooling Towers	1010017-007-AC	xx/xx/xxxx	xx/xx/xxxx		
		1010017-008-AV	xx/xx/xxxx	12/31/2009		

ID Number Changes (for tracking purposes):

From: **Facility ID No.: 40TPA510017**
To: **Facility ID No.: 1010017**

Notes:

- 1 - AO permit(s) automatic extension(s) in Rule 62-210.300(2)(a)3.a., F.A.C., effective 03/21/96.
 - 2 - AC permit(s) automatic extension(s) in Rule 62-213.420(1)(a)4., F.A.C., effective 03/20/96.
- {Rule 62-213.420(1)(b)2., F.A.C., allows Title V Sources to operate under existing valid permits that were in effect at the time of application until the Title V permit becomes effective}

Phase II Permit Application

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

This submission is: New Revised

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

Anclote Power Plant, FL, 8048

STEP 2
Enter the boiler ID# from NADB for each affected unit, and indicate whether a repowering plan is being submitted for the unit by entering "yes" or "no" at column c. For new units, enter the requested information in columns d and e

Compliance Plan					
a	b		c	d	e
Boiler ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)	Repowering Plan	New Units	Commence Operation Date	New Units Monitor Certification Deadline
**1	Yes	No			
**2	Yes	No			
	Yes				
	Yes				
	Yes				
	Yes				
	Yes				
	Yes				
	Yes				
	Yes				
	Yes				
	Yes				
	Yes				
	Yes				

STEP 3
Check the box if the response in column c of Step 2 is "Yes" for any unit

For each unit that will be repowered, the Repowering Extension Plan form is included and the Repowering Technology Petition form has been submitted or will be submitted by June 1, 1997.

Plant Name (from Step 1)
Anclote Power Plant

STEP 4
Read the standard requirements and certification, enter the name of the designated representative, and sign and date

Standard Requirements

Permit 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, 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 permitting authority determines is necessary in order to review an Acid Rain part application and issue or deny an Acid Rain permit;
- (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 permitting authority; and
 - (ii) Have an Acid Rain Part.

Monitoring Requirements.

- (1) The owners and operators and, to the extent applicable, designated representative of each Acid Rain source and each Acid Rain unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75, and Rule 62-214.420, F.A.C.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements.

- (1) The owners and operators of each source and each Acid Rain unit at the source shall:
 - (i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)) 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)(i) 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 permit application, the Acid Rain permit, or the written exemption under 40 CFR 72.7 and 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 Administrator or permitting authority:
 - (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;
 - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,

Plant Name (from Step 1)
Anclote Power Plant

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 a written 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 except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one Acid Rain unit shall not be liable for any violation by any other Acid Rain unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
- (7) Each violation of a provision of 40 CFR parts 72, 73, 75, 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 a written 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.

Certification

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

Name <i>W. Jeffrey Pardue, C.E.P., Director, Environmental Services Dept.</i>	
Signature 	Date <i>12/14/95</i>

STEP 5 (optional)
Enter the source AIRS
and FINDS identification
numbers, if known

AIRS
FINDS

Friday, Barbara

From: Koerner, Jeff
To: Friday, Barbara
Sent: Monday, October 23, 2006 11:22 AM
Subject: Read: PROPOSED Title V Permit Revision No.: 1010017-008-AV - Progress Energy Florida, Inc. - Anclote Power Plant

Your message

To: Nasca, Mara
Cc: Koerner, Jeff
Subject: PROPOSED Title V Permit Revision No.: 1010017-008-AV - Progress Energy Florida, Inc. - Anclote Power Plant
Sent: 10/23/2006 9:34 AM

was read on 10/23/2006 11:22 AM.

Friday, Barbara

From: Quillian, Ann [Ann.Quillian@pgnmail.com]
Sent: Monday, October 23, 2006 10:57 AM
To: Friday, Barbara; Jeff.Swartz@pgnmail.com; worley.gregg@epa.gov
Cc: Koerner, Jeff
Subject: RE: PROPOSED Title V Permit Revision No.: 1010017-008-AV - Progress Energy Florida, Inc. - Anclote Power Plant

Your e-mail with seven (7) attachments was received.

-----Original Message-----

From: Friday, Barbara [mailto:Barbara.Friday@dep.state.fl.us]
Sent: Monday, October 23, 2006 9:34 AM
To: Jeff.Swartz@pgnmail.com; Quillian, Ann; worley.gregg@epa.gov
Cc: Koerner, Jeff
Subject: PROPOSED Title V Permit Revision No.: 1010017-008-AV - Progress Energy Florida, Inc. - Anclote Power Plant

Dear Sir/Madam:

Please send a "reply" message verifying receipt of the attached document(s); this may be done by selecting "Reply" on the menu bar of your e-mail software and then selecting "Send". We must receive verification of receipt and your reply will preclude subsequent e-mail transmissions to verify receipt of the document(s).

The document(s) may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible.

The document is in Adobe Portable Document Format (pdf). Adobe Acrobat Reader can be downloaded for free at the following internet site: <http://www.adobe.com/products/acrobat/readstep.html>.

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record.

Thank you,

DEP, Bureau of Air Regulation

Friday, Barbara

From: Swartz, Jeffrey [Jeffrey.Swartz@pgnmail.com]
Sent: Monday, October 23, 2006 1:23 PM
To: Friday, Barbara
Cc: Quillian, Ann; Hamilton, Suzanne
Subject: RE: PROPOSED Title V Permit Revision No.: 1010017-008-AV - Progress Energy Florida, Inc. - Anclote Power Plant

The plant has received your e-mail with 7 attachments. Thanks,
-Jeff

-----Original Message-----

From: Friday, Barbara [mailto:Barbara.Friday@dep.state.fl.us]
Sent: Monday, October 23, 2006 12:14 PM
To: Swartz, Jeffrey
Cc: Koerner, Jeff
Subject: PROPOSED Title V Permit Revision No.: 1010017-008-AV - Progress Energy Florida, Inc. - Anclote Power Plant

Dear Sir/Madam:

Please send a "reply" message verifying receipt of the attached document(s); this may be done by selecting "Reply" on the menu bar of your e-mail software and then selecting "Send". We must receive verification of receipt and your reply will preclude subsequent e-mail transmissions to verify receipt of the document(s).

The document(s) may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible.

The document is in Adobe Portable Document Format (pdf). Adobe Acrobat Reader can be downloaded for free at the following internet site: <http://www.adobe.com/products/acrobat/readstep.html>.

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record.

Thank you,

DEP, Bureau of Air Regulation

Friday, Barbara

To: jeffrey.swartz@pgnmail.com
Cc: Koerner, Jeff
Subject: PROPOSED Title V Permit Revision No.: 1010017-008-AV - Progress Energy Florida, Inc. - Anclote Power Plant
Attachments: 1010017008ProposedCoverLetter.pdf; 1010017008 CP-1.pdf; 1010017008 H.pdf; 1010017008 pd.pdf; 1010017008 prop.pdf; 1010017008 sob prop.pdf; 1010017008 U.pdf

Dear Sir/Madam:

Please send a "reply" message verifying receipt of the attached document(s); this may be done by selecting "Reply" on the menu bar of your e-mail software and then selecting "Send". We must receive verification of receipt and your reply will preclude subsequent e-mail transmissions to verify receipt of the document(s).

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Thank you,

DEP, Bureau of Air Regulation

10/23/2006

Friday, Barbara

From: Quillian, Ann [Ann.Quillian@pgnmail.com]
To: Friday, Barbara
Sent: Monday, October 23, 2006 9:53 AM
Subject: Read: PROPOSED Title V Permit Revision No.: 1010017-008-AV - Progress Energy Florida, Inc. - Anclote Power Plant

Your message

To: Ann.Quillian@pgnmail.com
Subject:

was read on 10/23/2006 9:53 AM.

Friday, Barbara

From: EPA Postmaster automated message [postmaster@epamail.epa.gov]
Sent: Monday, October 23, 2006 9:37 AM
To: Friday, Barbara
Subject: Delivery Notification: Message successfully forwarded

Attachments: ATT123550.txt; ATT123550.txt



ATT123550.txt (626 B) ATT123550.txt (2 KB)

This report relates to a message you sent with the following header fields:

Message-id: <5280B20498F24C46A51A87E86A0C8F97038BF0@tlhexsmb5.floridadep.net>
Date: Mon, 23 Oct 2006 09:34:09 -0400
From: "Friday, Barbara" <Barbara.Friday@dep.state.fl.us>
To: Jeff.Swartz@pgnmail.com, Ann.Quillian@pgnmail.com, worley.gregg@epamail.epa.gov
Subject: PROPOSED Title V Permit Revision No.: 1010017-008-AV - Progress Energy Florida, Inc. - Anclote Power Plant

Your message has been successfully relayed to the recipients

Recipient address: worley.gregg@mseive.epa.gov
Original address: worley.gregg@epa.gov
Reason: Message successfully relayed to a system that does not support receipts
Diagnostic code: dns;mseive01.rtp.epa.gov (TCP|134.67.208.99|1846|134.67.221.149|25)
(mseive01.rtp.epa.gov ESMTTP Postfix) smtp;250 Ok
Remote system: dns;mseive01.rtp.epa.gov (TCP|134.67.208.99|1846|134.67.221.149|25)
(mseive01.rtp.epa.gov ESMTTP Postfix)

on a remote system that does not support the generation of successful delivery receipts. This does NOT mean that your message has actually been placed in the recipients' mailboxes; merely that it has passed through a part of the message transport infrastructure. In the event of a nondelivery you should expect to receive a nondelivery notification; in the event of successful delivery, however, you are unlikely to receive a positive confirmation of delivery.

Friday, Barbara

To: Jeff.Swartz@pgnmail.com; Ann.Quillian@pgnmail.com; worley.gregg@epa.gov
Cc: Koerner, Jeff
Subject: PROPOSED Title V Permit Revision No.: 1010017-008-AV - Progress Energy Florida, Inc. - Anclote Power Plant
Attachments: 1010017008ProposedCoverLetter.pdf; 1010017008 CP-1.pdf; 1010017008 H.pdf; 1010017008 pd.pdf; 1010017008 prop.pdf; 1010017008 sob prop.pdf; 1010017008 U.pdf

Dear Sir/Madam:

Please send a "reply" message verifying receipt of the attached document(s); this may be done by selecting "Reply" on the menu bar of your e-mail software and then selecting "Send". We must receive verification of receipt and your reply will preclude subsequent e-mail transmissions to verify receipt of the document(s).

The document(s) may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible.

The document is in Adobe Portable Document Format (pdf). Adobe Acrobat Reader can be downloaded for free at the following internet site: <http://www.adobe.com/products/acrobat/readstep.html>.

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record.

Thank you,

DEP, Bureau of Air Regulation

Friday, Barbara

To: Nasca, Mara
Cc: Koerner, Jeff
Subject: PROPOSED Title V Permit Revision No.: 1010017-008-AV - Progress Energy Florida, Inc. - Anclote Power Plant

Attachments: 1010017.008.AV.P_pdf[1].zip

Dear Sir/Madam:

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The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record.

Thank you,

DEP, Bureau of Air Regulation

Friday, Barbara

From: System Administrator
To: Nasca, Mara
Sent: Monday, October 23, 2006 9:34 AM
Subject: Delivered: PROPOSED Title V Permit Revision No.: 1010017-008-AV - Progress Energy Florida, Inc. - Anclote Power Plant

Your message

To: Nasca, Mara
Cc: Koerner, Jeff
Subject: PROPOSED Title V Permit Revision No.: 1010017-008-AV - Progress Energy Florida, Inc. - Anclote Power Plant
Sent: 10/23/2006 9:34 AM

was delivered to the following recipient(s):

Nasca, Mara on 10/23/2006 9:34 AM