Florida Department of Environmental Protection

Bob Martinez Center
2600 Blairstone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

October 16, 2009

Electronically Sent – Received Receipt Requested

Mr. Thomas Callaghan, Plant General Manager (thomas.callaghan@pgnmail.com)
Florida Power Corporation dba Progress Energy Florida, Inc. (PEF)
P.L. Bartow Power Plant
299 First Avenue North, BR44
St. Petersburg, Florida 33701

Re: **Permit No. 1030011-016-AV**
P.L. Bartow Power Plant
Title V Permit Renewal

Dear Mr. Callaghan:

One copy of the proposed determination for the Title V air operation permit renewal for the P.L. Bartow Power Plant is enclosed. The existing plant is located in Pinellas County at 1601 Weedon Island Drive, St. Petersburg. This letter is only a courtesy to inform you that the draft permit has now 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/emission/apds/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permit will not be issued until the permitting authority receives written notice that the objection is resolved or withdrawn.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 have any questions, please contact the Project Engineer, Teresa Heron, by telephone at 850-921-9529 or by email at teresa.heron@dep.state.fl.us.

Sincerely,

Jonathan Holton

for Trina L. Vielhauer, Chief
Bureau of Air Regulation

TLV/jkh/thm

Enclosures

Copy furnished to:

Mr. Thomas Lawery, PEF: thomas.lawery@pgnmail.com
Mr. Chris Bradley, PEF: chris.bradley@pgnmail.com
Mr. Scott Osbourn, P.E., Golder: sosbourn@golder.com
Ms. Katy Forney, U.S. EPA Region 4: forney.kathleen@epamail.epa.gov
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Ms. Mara Nasca, DEPSWD: mara.nasca@dep.state.fl.us
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Barbara Friday, DEP BAR: barbara.friday@dep.state.fl.us (for posting with U.S. EPA, Region 4)
Victoria Gibson, DEP BAR: victoria.gibson@dep.state.fl.us (for reading file)

PROPOSED DETERMINATION

I. Public Notice.

An Intent to Issue Title V air operation permit renewal to Progress Energy Florida, for the P.L. Bartow Power Plant located at 1601 Weedon Island Drive, St. Petersburg, was clerked on August 3, 2009. The Public Notice of Intent to Issue Title V air operation permit renewal was published in the St Petersburg Times on August 24, 2009. The draft Title V air operation permit was available for public inspection at the permitting authority's office in Tallahassee. Proof of publication of the Public Notice of Intent to Issue Title V Air Operation Permit Renewal was received on September 1, 2009.

II. Public Comment(s).

No comments were received from the Public during the 30-day public comment period; however, comments were received from the Permittee. The comments were not considered significant enough to reissue the draft Title V permit and require another Public Notice; therefore, the draft Title V air operation permit was changed. Those comments are addressed below. Additions to the permit are indicated by a double underline. Deletions from the permit are indicated by a ~~strike-through~~.

Letter from Progress Energy dated September 24, 2009

Comment 1. PEF requests changes/corrections throughout the permit as outlined below.

Response 1. The Department agrees and makes the changes as follows:

a. Where the combustion turbines are identified throughout the permit as Model SGT6-5000F, the following change is made: 50~~0~~100F.

b. Where the CT burners are identified throughout the permit as Dry Low NO_X, the following change is made: ~~Dry~~Ultra Low NO_X Burners or ~~D~~ULN.

Comment 2. PEF requests that the reference to a new 1475 MW energy project be corrected to 1280 MW since Unit 5 was not constructed. The corrections are in the in the Statement of Basis and the Project Description language.

Response 2. The Department agrees and makes the change as follows:

The purpose of this permitting project is to revise the existing Title V permit by incorporating the new ~~1475~~ 1,280 MW energy project.

Comment 3. PEF requests a clarification of the Statement of Basis portion related to the Acid Rain requirements since SO_2 allowances were allocated only to the new Unit 4 that has been constructed at this time.

Response 3. The Department agrees and makes the changes as follows:

Title IV: The facility operates a unit (Unit 4) subject to the acid rain provisions of the Clean Air Act. Units 1, 2 and 3 were shutdown on June 1, 2009. The allowances for SO_2 that were allocated for Units 1, 2 and 3 are preserved by the facility and are allocated for new Units 4 and Unit 5, if constructed. Retired Unit exemption forms for Units 1, 2 and 3 are included in the permit as part of the Acid Rain Application.

Comment 4. PEF requests the deletion of the regulations listed in the *Appendices* pertaining to the applicability of Subpart GG to the existing peaking units. The existing peaking units are not subject to Subpart GG.

Response 4. The Department agrees and makes the changes as follows:

Appendix NESHAP, Subpart A – General Provisions. (E.U. 038, 039, 040, 041 ~~and 042~~)
~~Appendix NSPS, Subpart GG. (E.U. 005, 006, 007 and 008)~~
Appendix NSPS, Subpart A – General Provisions. (E.U. 038, 039, 040, 041, ~~042, 043,~~ 044 and 046)
Appendix NSPS, Subpart KKKK. (E.U. 038, 039, 040, 041 ~~and 042~~)

Comment 5. PEF requests the deletion of the regulations listed in *Section I, Subsection C* pertaining to the applicability of Subpart GG to the existing peaking units. The existing peaking units are not subject to Subpart GG.

Response 5. The Department agrees and makes the changes as follows:

Federal Rule Citations	
40 CFR 60, Subpart A, NSPS General Provisions	~~005, 006, 007, 008~~, 038, 039, 040, 041
40 CFR 60, NSPS Subpart KKKK	038, 039, 040, 041
~~40 CFR 60, NSPS Subpart GG~~	~~005, 006, 007, 008~~
40 CFR 60, NSPS Subpart IIII	046
40 CFR 63, Subpart A, NESHAP General Provisions	038, 039, 040, 041
40 CFR 63, Subpart YYYY	038, 039, 040, 041
40 CFR 75 Acid Rain Monitoring Provisions	038, 039, 040, 041

Comment 6. PEF requests a change in the reference to an averaging time regarding Specific Condition **A.6** which restricts the sulfur content of the fuel oil and there is not an annual averaging time associated with this permit condition.

Response 6. The Department agrees and makes the changes as follows:

Unless otherwise specified, the averaging times for Specific Conditions **A.5 ~~– A.6~~** ~~are~~ is based on the specified averaging time of the applicable test method.

Comment 7. PEF requests to correctly renumber *Section III, Subsection A, Specific Condition A.15*

Response 7. The Department agrees and makes the changes as follows:

*Specific Condition **A.15** – DEP Method 9:*:

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

a. 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~~b. 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~~ (1) 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~~ (2) 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.

Comment 8. PEF requests to clearly define "engine-hours" as the summation of the hours of operation of the 3 diesel generators in *Section III, Subsection C, Specific Condition C.4 – Hours of Operation.*

Response 8. The Department agrees and makes the changes as follows:

The total hours of operation expressed as "engine-hours" shall not exceed 2,970 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.

Comment 9. PEF requests to correct the reference to other permit conditions in *Section III, Subsection C, Specific Condition C.9 - Fuel Sulfur Analysis.*

Response 9. The Department agrees and makes the changes as follows:

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 conditions **C.3., C.6.** and **C.~~14~~15.**

Comment 10. PEF requests to add a sentence to address the scenario in which the unit is not operated within the 5-year life of the permit in the specific condition *Section III, Subsection C, Specific Condition C.13 – Compliance Test Prior to Renewal.*

Response 10. The Department agrees and makes the changes as follows:

Compliance Tests Prior To Renewal. Compliance tests shall be performed for visible emissions once every 5 years. The tests shall occur prior to obtaining a renewed operating permit to demonstrate compliance with the emission limits in Specific Condition C.5. No VE is required if the units have not been relocated to the site during the 5-year permit cycle of the Title V Operating permit.

Comment 11. PEF requests to change the table column titled "Related Condition(s)" to reflect the correct Specific Condition in *Section III, Subsection C, Specific Condition C.18 – Reporting Schedules.*

Response 11. The Department agrees and makes the changes as follows:

Report	Reporting Deadline	Related Condition(s)
Notice of Malfunctions	Quarterly, If Requested	~~C.19~~ C.20
Notice of Relocations	15 Days Prior to Relocation	~~C.23~~ C25

Comment 12. PEF requests to modify the facility description to clarify the simple cycle operation (bypass stack).

Response 12. The Department agrees and makes the changes as follows:

Emissions Unit 4 consists of four ("4-on-1") Siemens SGT6-501~~00~~F gas turbine-electrical generator set (Units 4A-4D) with a generating capacity of 215 MW (each) for gas firing at ISO conditions when practicing power (steam) augmentation. Exhaust from each gas turbine passes through a separate supplementary 500 MMBtu/hr gas fired heat recovery steam generator (HRSG). Steam from each HRSG is delivered to the 420 MW single steam turbine-electrical generator (STG).

Each combustion turbine (CT) has 2 ~~a single stack~~ stacks that ~~is~~ are equipped with continuous emissions monitoring systems (CEMS) to measure and record ~~CO~~ NO_X in simple-cycle and CO and NO_X emissions in combined-cycle, as well as flue gas oxygen or carbon dioxide content

Each CT within the combined-cycle unit system is permitted to operate in simple-cycle by directing the exhaust to a bypass stack instead of the respective heat recovery steam generator (HRSG) exhaust stack. All 8 stacks measure approximately 120 feet in height. Each CT is capable of firing backup low sulfur (<0.05% S) distillate fuel oil for the equivalent of 1,000 hours per year (hr/yr). All CTs are equipped with evaporative coolers to condition incoming air at high ambient temperatures. Emissions of CO, PM/PM_{10}, SAM, SO_2 and VOC are controlled by the efficient combustion of natural gas and restricted firing of low sulfur distillate fuel oil. NO_X emissions are controlled by Dry Low-NO_X (DLN) combustion technology and for gas firing and water injection for oil firing.

The total generating capacity of Power Block 4, which includes 4 combined-cycle CTs and STG, ~~the units~~ is ~~1,475~~ 1,280 MW. These units commenced operation in November and December 2008.

Comment 13. PEF requests changes in *Section III, Subsection D, Specific Condition D.14b and D.14 e. – Restricted Operation* to accurately reflect the number of emission units constructed.

Response 13. The Department agrees and makes the changes as follows:

> D. 14 b. Distillate oil firing is limited to 4,000 ~~5,000~~ hours total aggregate for all four ~~five~~ CTs (based on an average of 1,000 hours per CT) during any consecutive 12-month period.

Comment 14. PEF requests changes in *Section III, Subsection D, Specific Condition D.14 e. – Restricted Operation* for clarification purpose.

Response 14. The Department agrees and makes the changes as follows:

> D.14. e. Other than startup, shutdown, fuel switching or documented malfunction, simple cycle CT operations shall be at a load not less than 45% or that load at which compliance was demonstrated during the initial compliance test ~~at initial~~, whichever is higher.

Comment 15. PEF requests to clarify that *Specific Condition D.15. – Method of Operation* Units 1, 2 and 3 have been retired and will not be operated in the future. The units are also tentatively slated for demolition over the course of the next 12 months.

Response 15. The Department agrees and makes the changes as follows:

> Subject to the restrictions and requirements of this permit, the CTs may commence commercial operation and thereafter operate under the following methods of operation ~~after Units 1, 2 and 3 cease commercial operation (Commence commercial operation means to have begun to generate electricity for sale, including the sale of test generation.)~~

Comment 16. PEF requests to change *Specific Condition D.17.c. Best Available Control Technology (BACT) Emissions Standards for CO and VOC* for clarification purpose.

Response 16. The Department agrees and makes the changes as follows:

> CEMS for CO are required only on the HRSG stacks. Other than startup, shutdown, fuel switching or documented malfunction, simple cycle CT operations shall be at a load not less than 45% or that load at which compliance was demonstrated during the initial compliance test ~~at initial~~, whichever is higher.

Comment 17. PEF requests to eliminate *Subsection D, Specific Condition D.23.d.* As interpreted by PEF the specific conditions included under the section title "Excess Emissions" only applies to carbon monoxide (CO) emissions. Specific Condition, D.23.d applies to the simple-cycle mode of operation and the simple-cycle exhaust stacks (i.e. bypass stacks) do not have CO CEMS installed.

Response 17. The Department does not agree with the requested changes. This language was created as part of a best available control technology determination and is an applicable requirement for the Title V permit. Even without CEMS, the condition applies and is more stringent than the excess emissions limitation due to startup in Rule 62-210.700(1), F.A.C. that this condition replaces. The intent was to make sure that the units startup in simple-cycle mode as quickly as possible in order to get to the required 70% operating level. No changes have been made as a result of this comment.

Comment 18. PEF requests to clarify *Subsection D, Specific Condition D.25 – ULN Tuning* by deleting and adding proposed language to this condition.

Response 18. The Department will not make the changes as proposed except for the clarification of the ultra low NOx burners (ULN).

The requested proposed changes conflict with the current AC permit and cannot be done through a revision to a Title V permit. This condition is modified as follows:

> CEMS data collected during initial or other major ~~D~~ULN tuning sessions shall be excluded from the CEMS compliance demonstration provided the tuning session is performed in accordance with the manufacturer's specifications. A "major tuning session" would occur after completion of initial construction, a combustor change-out, a major repair or maintenance to a combustor, or other similar circumstances. Prior to performing any major tuning session, where the intent is to exclude data from the CEMS compliance demonstration, the permittee shall provide the Compliance Authority with an advance notice of at least 7 days that details the activity and proposed tuning schedule. The notice may be by telephone, facsimile transmittal, or electronic mail.

Comment 19. PEF requests to clarify *Section III, Subsection D, Specific Condition D.31 – Annual Compliance Tests.* PEF adds that carbon monoxide CEMs are only installed on the combine-cycle stacks and, therefore would be the only mode for which RATA data would be used to demonstrate compliance with CO standards.

Response 19. The Department agrees and makes the changes as follows:

> During each federal fiscal year (October 1st to September 30th), each CT shall be tested to demonstrate compliance with the emission standards for visible emissions. Combined-cycle CO emissions data collected during the required continuous monitor Relative Accuracy Test Audits (RATAs) may be used to demonstrate compliance with the CO standards. Annual testing to determine the ammonia slip shall be conducted while firing the primary fuel. NO_X emissions recorded by the CEMS shall be reported for each ammonia slip test run. Annual compliance tests for VOC emissions are not required. Compliance with the continuously monitored CO standards shall indicate efficient combustion and low VOC emissions. The Department retains the right to require VOC testing for the reasons such as exceedance of the CO limit or those given in Appendix TR, Special Compliance Tests.

Comment 20. PEF requests to change the header of *Subsection E. Auxiliary Boiler and Process Heater* to eliminate the emission unit that has not been constructed.

Response 20. The Department agrees and makes the changes as follows:

> **Subsection E. ~~Auxiliary Boiler and~~ Process Heaters (E.U. 044)**

Comment 21. PEF requests to change the applicability of an "averaging time" to two specific conditions: *Specific Condition E.7* restricts the sulfur content of the natural gas authorized to be combusted and there is not an averaging time associated with this permit condition; however, *Specific Condition E.5* does have a specific average time associated with it.

Response 21. The Department agrees and makes the changes as follows:

> Unless otherwise specified, the averaging times for Specific Conditions **E.5 and** E.6. ~~& E.7.~~ are based on the specified averaging time of the applicable test method.

Comment 22. PEF requests to include the option of providing the Manufacturer's Certification to comply with this requirement in *Specific Condition E.12*. This option was initially provided for in the Air Construction Permit but it has been removed. Note that this requested change will also require the modification of *Table 2-1, Summary of Compliance requirements for EU 044* (on Page 5 of 6).

Response 22. Upon further review of permit No. 1030011-010-AC (PSD-FL-381), it was concluded that the BACT determination only required initial testing. This testing requirement was previously satisfied by the submission of the manufacturer's certification. Further regular testing is not required; however, the provisions of Rule 62-297.310(7)(b), F.A.C. for conducting special compliance tests upon request still apply. The Department makes the following changes:

E.12. Annual Compliance Tests Not Required. ~~During each federal fiscal year (October 1st to September 30th), each emissions unit shall be tested~~ Regular testing to demonstrate compliance with the emissions standards for visible emissions and carbon monoxide is not required; however, the provisions for special compliance testing upon request still apply (see Specific Condition TR7b.). [Rule 62-297.310(7), F.A.C. and 1030011-010-AC (PSD-FL-381)]

Comment 23. PEF requests changes in the table column titled "Related Condition(s)" to reflect the correct specific condition.

Response 23. The Department agrees and makes the changes as follows:

Report	Reporting Deadline	Related Condition(s)
Notice of Malfunctions	Quarterly, If Requested	~~E.16~~ E.15
Fuel Usage	Annually	~~E.17~~ E.16

Comment 24. PEF requests to clarify *Section III, Subsection G, Specific Condition G.3* regarding the sulfur content of the fuel oil.

Response 24. The Department agrees and makes the changes as follows:

This unit shall fire low sulfur fuel oil (or superior fuel); i.e., no more than 0.05% sulfur by weight.

Comment 25. PEF requests to correct the referenced EPA ID Number for the 4 new combustion turbines (units 4A, 4B, 4C and 4D) identified in the table on Page 34 of 53. *Section IV, Acid Rain Part.*

Response 25. The Department agrees and makes the changes as follows:

E.U. ID No.	Brief Description
-001	No. 1 Unit, Fossil Fuel Fired Steam Generator with Electrostatic Precipitator (Retired 6/1/09)
-002	No. 2 Unit, Fossil Fuel Fired Steam Generator (Retired 6/1/09)
-003	No. 3 Unit, Fossil Fuel Fired Steam Generator (Retired 6/1/09)
-038	Gas turbine with supplementary-fired heat recovery steam generator (EPA ID # ~~TPCT~~ 4A)
-039	Gas turbine with supplementary-fired heat recovery steam generator (EPA ID # ~~TPCT~~ 4B)
-040	Gas turbine with supplementary-fired heat recovery steam generator (EPA ID # ~~TPCT~~ 4C)
-041	Gas turbine with supplementary-fired heat recovery steam generator (EPA ID # ~~TPCT~~ 4D)

Comment 26. PEF requests that the Department revise the permit to move E.U. ID Nos. 010, 011, 015, 016, 017, 018, 019, 020, 021, 023, 037 and 045 from the *List or Unregulated Emission Units* and/or Activities to the *List of Insignificant Emission Units.* PEF states the tanks are exempt from the NSPS Subpart Kb and there are no specific applicable requirements. PEF believes that the potential emissions are such that they can be categorized as "insignificant" units.

Response 26. The Department will not be able to do this change without a new PE certification for the calculations and a new public notice. We will need to address these the next time the permit is opened.

Comment 27. PEF believes that the current Bartow Power Plant site is no longer a major source of HAPs. The primary source of HAP emissions from the site were the since-retired fossil fuel-fired steam unit nos. 1, 2 and 3. This may be a significant issue if the NESHAP Subpart YYYY were in effect and the new combined cycle power block were to exceed 1,000 hr/yr of actual oil-firing hours. PEF would like to discuss this issue further with the Department and follow up with further permitting action, if necessary.

Response 27. The Department agrees with PEF to follow up in the next permitting action.

In addition to the above, the Department has made administrative changes to Subsection C. for the relocatable diesel generators to establish an emissions unit for these engines within this facility, rather than referencing an emissions unit from a different facility ID number. These units were established under permit No. AC09-202080, which was assigned to a relocatable facility, identification No. 7775047. To facilitate emissions unit reporting and compliance certifications, a new emissions unit (EU 047) has been created for this facility. All references in the permit to EU 001 at Facility ID No. 7775047 have been changed to EU 047.

III. Conclusion.

The enclosed Proposed Title V Air Operation Permit includes the aforementioned changes to the Draft Title V Air Operation Permit.

The permitting authority will issue the Proposed Permit Number 1030011-016-AV, with the changes noted above.

Florida Department of Environmental Protection

Memorandum

TO: Trina Vielhauer, Bureau of Air Regulation

THROUGH: Jon Holtom, Title V Section

FROM: Teresa Heron

DATE: October 16, 2009

SUBJECT: Proposed Permit No. 1030011-016-AV
Progress Energy Florida, P.L. Bartow Power Plant
Title V Permit Renewal

Attached for your review are the following items:

- Proposed Permit Determination;
- Statement of Basis; and,
- Proposed Title V Permit.

The subject of this permitting action is the renewal of Title V air operation permit No. 1030011-016-AV for the Progress Energy Florida, P.L. Bartow Power Plant, which is located in Pinellas County, Florida.

Comments were received in response to the draft permit and have been addressed in the proposed permit determination. Changes have been made to the draft permit in response to these comments. The changes were not deemed significant enough to require a revised draft permit and new Public Notice.

I recommend your approval of the attached proposed permit.

Attachments

Florida Power Corporation dba Progress Energy Florida, Inc. (PEF)
P. L. Bartow Power Plant
Facility ID No. 1030011
St. Petersburg, Florida
Title V Air Operation Permit Revision and Renewal
Permit No. 1030011-016-AV

APPLICANT

The applicant for this project is Florida Power Corporation dba Progress Energy Florida, Inc. The P. L. Bartow Plant is located in Pinellas County at 1601 Weedon Island Drive, St. Petersburg. The applicant's responsible official is Mr. Thomas Callaghan, Plant General Manager.

FACILITY DESCRIPTION

On January 29, 2007, a Prevention of Significant Deterioration (PSD) Permit was issued to Progress Energy for the construction of a new 1,475 MW energy plant. The P. L. Bartow Plant currently consists of the following new units:

- Four Model SGT6-5000F combined cycle combustion turbine-electrical generators (CCCT). This combined cycle unit system ("4-on-1"), designated as Unit 4, has a total nominal generation capacity of 1,280 megawatts (MW); and
- Four natural gas fired fuel heaters; two diesel fuel storage tanks; and a diesel fueled emergency fire pump. These emission units are part of the ancillary equipment for Unit 4.

Unit 4 combined cycle combustion turbine-electrical generators have a nominal rating of 215 MW each at ISO conditions when practicing power augmentation; four duct-fired heat recovery steam generators (HRSGs) each equipped with a selective catalytic reduction (SCR) reactor and a nominal 500 million Btu per hour (MMBtu/hr) duct burner; and a single nominal 420 MW steam-electrical generator (STG). Each CT within the combined cycle unit system is permitted to operate in simple cycle by directing the exhaust to a bypass stack instead of the respective heat recovery steam generator exhaust stack. All eight stacks measure approximately 120 feet in height. All combined cycle CTs are equipped with evaporative coolers to condition incoming air at high ambient temperatures and wet injection capability for nitrogen oxides control when firing fuel oil or when practicing power augmentation. Each CT is allowed to fire backup low sulfur (<0.05% S) distillate fuel oil for 1,000 hours per year (hr/yr).

The existing old units at the site are:

- Four 56 MW (each) simple cycle units designated as Gas Combustion Turbine Peaking Units Nos. P-1, P-2, P-3 and P-4 each of which has a nominal capacity of 56 MW;
- A 15.5 MMBtu/hr pipeline heating boiler and;
- Relocatable diesel generator(s).

On June 1, 2009, the existing three (3) fossil fuel fired steam generating units were permanently shutdown. These Units were designated as Units 1, 2 and 3 that produced 120, 120 and 225 MW of electrical power respectively.

Additional miscellaneous insignificant/unregulated emissions units and/or activities including fuel storage tanks and gas tanks are listed in Appendices I and U of the current Title V Permit.

PROJECT DESCRIPTION

The purpose of this permitting project is to revise the existing Title V permit by incorporating the new ~~1475~~ 1280 MW energy project. Also, this permitting action will renew the existing Title V permit 1030011-009-AV.

PROJECT REVIEW

Changes that were made as part of this renewal are the reformatting of the permit to the new Title V formats (streamlining of EU sections by moving common conditions to the new appendices, etc.), and replacement of TV-6 with new Appendix TV.

PEF requested some minor changes to Appendix I, Insignificant Emissions Units and/or Activities and Appendix U, Unregulated Emissions Units and/or Activities of the current Title V permit 1030011-009-AV.

PEF has also requested a change to one of the Excess Emissions Reporting conditions of the air construction permit (Condition 38.b) from quarterly to semi-annual. PEF states that every other pollutant in the permit has a reporting requirement on a semi-annual basis and that the only exception is for CO in this condition.

The Department will not change this requirement as requested since a BACT determination was required for this pollutant. A quarterly report is an appropriate requirement to report excess emissions, especially malfunction excess emissions. In accordance with Rule 62-210.700(6), F.A.C.: *"In case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department or the appropriate Local Program 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."*

PRIMARY REGULATORY REQUIREMENTS

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

Title IV: The facility operates unit (Unit 4) subject to the acid rain provisions of the Clean Air Act. Units 1, 2 and 3 were shutdown on June 1, 2009. The allowances for SO_2 that were allocated for Units 1, 2 and 3 are preserved by the facility and will be allocated for new Unit 4 and Unit 5, if constructed. Retired Unit exemption forms for Units 1, 2 and 3 are included in the permit as part of the Acid Rain Application.

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

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

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

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

CAIR: The facility is subject to the Clean Air Interstate Rule (CAIR) set forth in Rule 62-296.470, F.A.C.

CAM: Compliance Assurance Monitoring (CAM) does not apply to any of the units at the facility. Unit 4 is equipped with Acid Rain continuous emissions monitoring systems (CEMS) that are also used to demonstrate continuous compliance with the nitrogen oxides (NO_X) limits.

PROCESSING SCHEDULE AND RELATED DOCUMENTS

These documents and all related correspondence are on file with the permitting authority:
Title V Application received May 5, 2009
E-mail requesting additional information sent June 10 and June 16, 2009
Additional Information received by e-mail June 16, 2009
Draft Title V permit sent out on August 3, 2009
Publication of the Public Notice on August 24, 2009
Title V Permit Revision/Renewal No. 1030011-016-AV. Effective date January 1, 2010

CONCLUSION

This project renews Title V air operation permit No. 1030011-009-AV, which had an effective date of January 1, 2005 and includes subsequent revisions to this permit (1030011-013-AV) issued on March 17, 2009. This Title V air operation permit revision and renewal is issued under the provisions of Chapter 403, Florida Statues (F.S.), and Chapters 62-4, 62-210, 62-213 and 62-214, F.A.C.

Florida Power Corporation dba
Progress Energy Florida, Inc. (PEF)
P. L. Bartow Plant
Facility ID No. 1030011
Pinellas County

Title V Air Operation Permit Revision/Renewal
Draft Permit No. 1030011-016-AV
(Revision/Renewal of Title V Air Operation Permit No. 1030011-009-AV)

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

Compliance Authority
State of Florida
Pinellas County Department of Environmental Management (PCDEM)
Air Quality Management Division
300 South Garden Avenue
Clearwater, Florida 34616
Telephone: 727/464-4422
Fax: 727/464-4420

Title V Air Operation Permit Revision/Renewal

Permit No. 1030011-016-AV

Table of Contents

(PROPOSED)

PERMITTEE:
Florida Power Corporation dba
Progress Energy Florida, Inc. (PEF)
P.L. Bartow Plant
299 First Avenue North, BR 44A
St. Petersburg, Florida 33701

DRAFT Permit No. 1030011-016-AV
Facility ID No. 1030011
SIC No(s).: 49, 4911

Project: Title V Air Operation Permit Revision/Renewal

The purpose of this permit is to revise/renew the Title V air operation permit for the above referenced facility. The existing P. L. Bartow Plant is located in Pinellas County at 1601 Weedon Island Drive, St. Petersburg. UTM Coordinates: Zone 17, 343.87 km East and 3,082.69 km North; Latitude: 27° 51' 41" North and Longitude: 82° 36' 6" West.

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

Effective Date: January 1, 2010
Optional Renewal Application Due Date: May 20, 2013
Renewal Application Due Date: May 20, 2014
Expiration Date: December 31, 2014

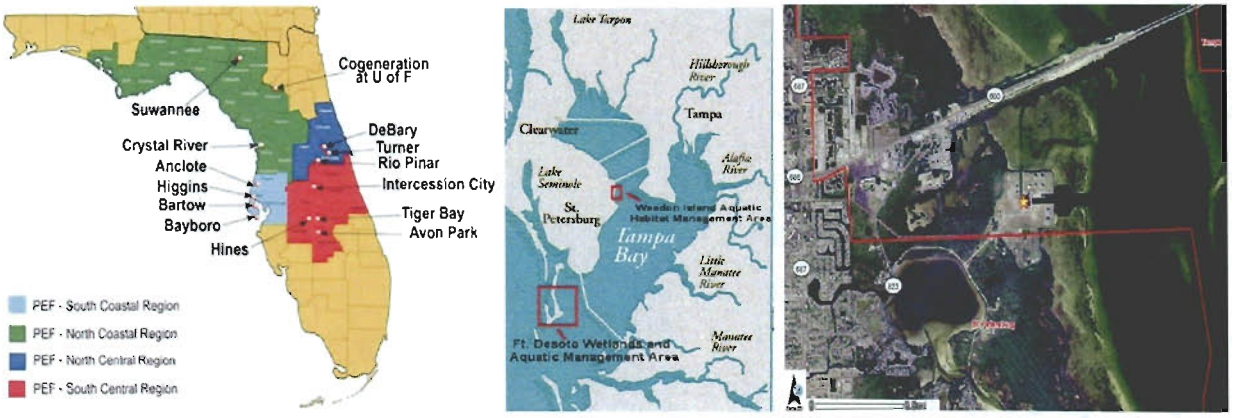
(Draft)

Joseph Kahn, Director
Division of Air Resource Management

JK/tlv/jh/th

Subsection A. Facility Description.

Progress Energy Florida (PEF) operates the P.L. Bartow Plant, which is an existing power plant (SIC No. 4911). The plant is located at Weedon Island approximately 83 km south of the PSD Class I Chassahowitzka Wilderness Area. The placard page above indicates the exact geographical coordinates.



Bartow Power Plant in the PEF System and Location of Weedon Island and Power Plant

The existing three (3) fossil fuel fired steam generating units were shutdown on June 1, 2009. These Units were designated as Units 1, 2 and 3 that produced 120, 120 and 225 megawatts (MW) of electrical power respectively.

This power plant currently consists of:

- Four Model SGT6-5010~~0~~F combined cycle combustion turbine-electrical generators (CCCT). This combined cycle unit system ("4-on-1"), designated as Unit 4, has a nominal generation capacity of 1,280 megawatts (MW);
- Four natural gas fired fuel heaters; two diesel fuel storage tanks; and a diesel fueled emergency fire pump. These emission units are part of the ancillary equipment for Unit 4.
- Four simple cycle units designated as Gas Combustion Turbine Peaking Units Nos. P-1, P-2, P-3 and P-4 each of which has a nominal capacity of 56 MW;
- Additional emissions units include a pipeline heating boiler and relocatable diesel generators; and
- Miscellaneous unregulated/insignificant emissions units and/or activities including fuel storage tanks and gas tanks that can be located at various PEF power plants. These units are listed in Appendix U of the current Title V Permit.

Unit 4 combined cycle combustion turbine-electrical generators (CT) have a nominal rating of 215 MW each at ISO conditions when practicing power augmentation; four duct-fired heat recovery steam generators (HRSG's) each equipped with a selective catalytic reduction (SCR) reactor and a nominal 500 million Btu per hour (MMBtu/hr) duct burner; and a single nominal 420 MW steam-electrical generator (STG). Each CT within the combined cycle unit system is permitted to operate in simple cycle by directing the exhaust to a bypass stack instead of the respective heat recovery steam generator (HRSG) exhaust stack. All eight stacks measure approximately 120 feet in height. All combined cycle CTs are equipped with evaporative coolers to condition incoming air at high ambient temperatures and wet injection capability for nitrogen oxides control when firing fuel oil or when practicing power augmentation. Each CT is allowed to fire backup low sulfur (<0.05% S) distillate fuel oil for 1,000 hours per year (hr/yr).

Subsection B. Summary of Emissions Units.

E.U. ID	Emission Unit Description
Regulated Emissions Units	
-004	Bartow-Anclote Pipeline Heating Boiler
-005	Gas Turbine Peaking Unit #P-1
-006	Gas Turbine Peaking Unit #P-2
-007	Gas Turbine Peaking Unit #P-3
-008	Gas Turbine Peaking Unit #P-4
-001	Relocatable Diesel Fired Generator(s) [Facility ID No. 7775047]
-038	Unit 4A – One 215 MW (ISO) Combustion Turbine with Duct-fired Heat Recovery Steam Generator
-039	Unit 4B – One 215 MW (ISO) Combustion Turbine with Duct-fired Heat Recovery Steam Generator
-040	Unit 4C – One 215 MW (ISO) Combustion Turbine with Duct-fired Heat Recovery Steam Generator
-041	Unit 4D – One 215 MW (ISO) Combustion Turbine with Duct-fired Heat Recovery Steam Generator
-044	Four Nominal 3 MMBtu/hr Gas-fired Process Heaters
-045	Two Nominal 3,500,000 gallon Distillate Fuel Oil Storage Tanks
-046	One Nominal 300 horsepower Diesel-fueled Emergency Fire Pump
Unregulated Emissions Units and Activities	
	Unregulated Emissions Units and Activities (See Appendix U-1.)
Insignificant Emissions Units and Activities	
	Insignificant Emissions Units and Activities (See Appendix I-1.)

Subsection C. Applicable Regulations.

Based on the Title V Air Operation permit revision/renewal application received May 5, 2009, this facility is a major source of hazardous air pollutants (HAP). This facility is classified as a PSD major facility. A summary of applicable regulations is shown in the following table.

Regulation	EU No(s).
State Rule Citations	
Rule 62-4, Florida Administrative Code (F.A.C.) (Permitting Requirements)	004, 005, 006, 007, 008, 038, 039, 040, 041, 044, 045, 046
Rule 62-204, F.A.C. (Ambient Air Quality Requirements, PSD Increments, and Federal Regulations Adopted by Reference)	
Rule 62-210, F.A.C. (Permits Required, Public Notice, Reports, Stack Height Policy, Circumvention, Excess Emissions, and Forms)	
Rule 62-213, F.A.C. (Title V Air Operation Permits for Major Sources of Air Pollution)	
Rule 62-212, F.A.C. (Preconstruction Review, PSD Review and Best Available Control Technology (BACT))	038, 039, 040, 041, 044, 045, 046
Rule 62-214, F.A.C. (Requirements For Sources Subject To The Federal Acid Rain Program)	038, 039, 040, 041
Rule 62-296, F.A.C. (Emission Limiting Standards)	004
Rule 62-297, F.A.C. (Test Methods and Procedures, Continuous Monitoring Specifications, and Alternate Sampling Procedures)	004, 005, 006, 007, 008, 038, 039, 040, 041, 044, 045, 046
Federal Rule Citations	
40 CFR 60, Subpart A, NSPS General Provisions	~~005, 006, 007, 008~~, 038, 039, 040, 041
40 CFR 60, NSPS Subpart KKKK	038, 039, 040, 041
~~40 CFR 60, NSPS Subpart GG~~	~~005, 006, 007, 008~~
40 CFR 60, NSPS Subpart IIII	046
40 CFR 63, Subpart A, NESHAP General Provisions	038, 039, 040, 041
40 CFR 63, Subpart YYYY	038, 039, 040, 041
40 CFR 75 Acid Rain Monitoring Provisions	038, 039, 040, 041

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

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

Emissions and Controls

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

FW3. General Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. No person shall store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. Nothing is deemed necessary and ordered at this time. [Rule 62-296.320(1), F.A.C.]

FW4. General Visible Emissions. No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b)1, F.A.C.]

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

a. Maintenance of paved areas;
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. and provided by applicant in Title V air operation permit renewal application received May 5, 2009.]

Annual Reports and Fees

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

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

{Permitting Note: If the applicant chooses to use the Electronic Annual Operating Report, software instructions provided with the system should be followed.}

FW7. Annual Emissions Fee Form and Fee. The annual Title V emissions fees are due (postmarked) by March 1st of each year. The completed form and calculated fee shall be submitted to: Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida 32315-3070. The forms are available for download by accessing the Title V Annual Emissions Fee On-line Information Center at the following Internet web site: http.//www.dep.state.fl.us/air/emission/tvfee.htm. [Rule 62-213.205, F.A.C.]

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

{Permitting Note: As specified in Specific Condition RR7 of Appendix RR, the applicant shall use DEP Form No. 62-213.900 (7) to comply with these requirements.}

FW9. 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~~ RMP Reporting Center, Post Office Box 10162, Fairfax, VA 22038, Telephone: (703) 227-7650.

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]

The specific conditions in this subsection apply to the following emissions units:

EU No.	Brief Description
004	Bartow-Anclote Pipeline Heating Boiler

The Bartow-Anclote Pipeline Heating Boiler is used to heat fuel oil being transferred from the Bartow Plant to the Anclote Plant. The boiler's maximum heat input rate is 15.5 million Btu per hour firing natural gas, No. 2 fuel oil, or propane. Emissions from the boiler are uncontrolled.

{Permitting Note(s): The emissions unit is regulated under Rule 62-296.406, F.A.C., Fossil Fuel Steam Generators with Less than 250 million Btu per Hour Heat Input}

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

Essential Potential to Emit (PTE) Parameters

A.1. Permitted Capacity. The maximum operation heat input rate is 15.5 million Btu per hour. [Rules 62-4.160(2), 62-210.200(PTE) and 62-296.406, F.A.C.]

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

A.3. Methods of Operation - Fuels. This boiler is permitted to fire only the following fuels and at the maximum rates shown:

Fuel	Maximum % Sulfur	Maximum MMBtu/hr	Maximum Fuel Usage
Natural Gas	- -	15.5	15 Mcf/hr
No. 2 Fuel Oil *	0.5% by weight	15.5	110 gal/hr
Propane	- -	15.5	191 gal/hr

* New No. 2 fuel oil only (waste or recycled oil is not allowed).
[Rule 62-213.410, F.A.C.; and, AO52-244478]

A.4. Hours of Operation. This emissions unit may operate continuously, i.e., 8,760 hours/year. [Rule 62-210.200(PTE), F.A.C.]

Emission Limitations and Standards

{Permitting Note: Table 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.}

Unless otherwise specified, the averaging times for Specific Conditions **A.5.** ~~**– A.6.** are~~ is based on the specified averaging time of the applicable test method.

A.5. Visible Emissions. Visible emissions shall not exceed 20 percent opacity, except for one two-minute period per hour during which opacity shall not exceed 40 percent. [Rule 62-296.406(1), F.A.C.; and, AO52-244478]

A.6. Sulfur Dioxide - Sulfur Content. The new No. 2 fuel oil sulfur content shall not exceed 0.5 percent, by weight. See specific condition **A.16.** [Rule 62-296.406(3), F.A.C.; and, AO52-244478]

Excess Emissions

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

A.7. Excess Emissions Allowed. 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.8. Excess Emissions Prohibited. 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.9. 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 the permittee upon each fuel delivery.** This protocol is allowed because the emissions unit does not have an operating flue gas desulfurization device. See specific conditions **A.6.** and **A.15.** [Rule 62-296.406(3), F.A.C.]

Test Methods and Procedures

{Permitting Note: The attached Table 2, 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.10. Test Methods. Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

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

A.11. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310(7), F.A.C.]

A.12. Annual Compliance Tests Required. Except as provided in Specific Condition **A.17.**, during each federal fiscal year (October 1st to September 30th), this emissions unit shall be tested to demonstrate compliance with the emissions standards for visible emissions. [Rule 62-297.310(7), F.A.C]

A.13. Compliance Tests Prior To Renewal. Compliance tests shall be performed for visible emissions once every 5 years. The tests shall occur prior to obtaining a renewed operating permit to demonstrate compliance with the emission limits in Specific Conditions **A.5.** [Rules 62-210.300(2)(a) and 62-297.310(7)(a), F.A.C.]

A.14. Visible emissions. The test method for visible emissions shall be DEP Method 9, incorporated in Chapter 62-297, F.A.C. See specific condition **A.15.** [Rules 62-213.440 and 62-297.401, F.A.C.]

A.15. DEP Method 9. The provisions of EPA Method 9 (40 CFR 60, Appendix A) are adopted by reference with the following exceptions:

a. 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.~~b. 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.~~(1) 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.~~(2) 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.16. Methods to Evaluate Fuel Sulfur Content. The fuel sulfur content, percent by weight, for liquid fuels shall be evaluated using either ASTM D2622-92, ASTM D4294-90, both ASTM D4057-88 and ASTM D129-91, or the latest edition, or ASTM D1552-95 or an equivalent method after Department approval. [Rules 62-213.440 and 62-297.440, F.A.C.]

A.17. Annual Emissions Compliance Testing. By this permit, annual emissions compliance testing for visible emissions is not required for these emissions units while burning:

a. only gaseous fuel(s); or
b. gaseous fuel(s) in combination with any amount of liquid fuel(s) for less than 400 hours per year; or
c. only liquid fuel(s) for less than 400 hours per year.

[Rule 62-297.310(7)(a)4., F.A.C.]

Record keeping and Reporting Requirements

A.18. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Notice of Excess Emissions	Quarterly	A.20.

A.19. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

A.20. Notification of Excess Emissions. In the case of excess emissions resulting from malfunctions, each owner or operator shall notify PCDEM 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 PCDEM. [Rule 62-210.700(6), F.A.C.]

A.21. Records of Fuel Consumption and Operating Time Required. The owner or operator shall make and maintain records of the hours of operation and the total fuel oil consumption in sufficient detail to ensure compliance with specific conditions of this permit. [Rule 62-4.070(3), F.A.C.]

Subsection B. Gas Turbines Peaking Units (E.U. 005, 006, 007 and 008)

The specific conditions in this subsection apply to the following emissions units:

E.U. ID No.	Brief Description
-005	Gas Turbine Peaking Unit #P-1
-006	Gas Turbine Peaking Unit #P-2
-007	Gas Turbine Peaking Unit #P-3
-008	Gas Turbine Peaking Unit #P-4

The four gas turbines are natural gas and/or No. 2 fuel oil fired combustion turbines manufactured by General Electric (model number MS7000) and are designated as Gas Turbine Peaking Units #P-1, #P-2, #P-3 and #P-4. The manufacturer's fuel flow and heat input ratings for each turbine are 5,174 gallons per hour of No. 2 fuel oil, or 714 million cubic feet per hour of natural gas (corresponds to approximately 714 million Btu per hour , at 59 degrees F). The actual heat input rate of the turbine is a function of the ambient temperature. These combustion turbines are used as peaking units during peak demand times to run a nominal 56 MW generator (each). Emissions from the combustion turbines are uncontrolled.

{Permitting Notes: These emissions units are regulated under Rule 62-210.300, F.A.C., Permits Required. These emissions units are not subject to 40 CFR 60, Subpart GG, Standards of Performance for New Stationary Gas Turbines. Each combustion turbine has its own stack. Each combustion turbine began commercial operation in 1972.}

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

Essential Potential to Emit (PTE) Parameters

B.1. Permitted Capacity - Gas Turbines. The maximum heat input rate to each gas turbine is 714 MMBtu per hour when firing natural gas or distillate fuel oil (based on a compressor inlet air temperature of 59° F, the lower heating value (LHV) of each fuel, and 100% load). Heat input rates will vary depending upon gas turbine characteristics, ambient conditions, alternate methods of operation, and evaporative cooling. The permittee shall provide updated manufacturer's performance curves (or equations) that correct for site conditions to the Compliance Authority within 45 days of completing testing, maintenance or tuning sessions that result in a need to reestablish the curves. Operating data may be adjusted for the appropriate site conditions in accordance with the performance curves and/or equations on file with the Department. [Rule 62-210.200(PTE), F.A.C.]

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

B.3. Methods of Operation – Fuels. Only natural gas and/or new No. 2 fuel oil shall be fired in the combustion turbines. New No. 2 fuel oil is defined as fuel oil that has been refined from crude oil and has not been used and which may or may not contain additives. [Rule 62-213.410(1), F.A.C.; and, AO52-253215A, AO52-253216A, AO52-253217A & AO52-253218A]

B.4. Hours of Operation. These emissions units may operate continuously, i.e., 8,760 hours/year. [Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; and, AO52-253215A, AO52-253216A, AO52-253217A & AO52-253218A]

Emission Limitations and Standards

{Permitting Note: The attached Table 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.}

Unless otherwise specified, the averaging time for Specific Condition **B.5.** is based on the specified averaging time of the applicable test method.

B.5. Visible Emissions. Visible emissions from each turbine shall not be equal to or greater than 20 percent opacity. [Rule 62-296.320(4)(b)1., F.A.C.; and, AO52-253215A, AO52-253216A, AO52-253217A & AO52-253218A]

B.6. **Not federally enforceable.** Sulfur Dioxide - Sulfur Content. The sulfur content of the No. 2 fuel oil shall not exceed 0.5 percent, by weight. [AO52-253215A, AO52-253216A, AO52-253217A & AO52-253218A]

Excess Emissions

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

B.7. Excess Emissions Allowed. 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 PCDEM for longer duration. [Rule 62-210.700(1), F.A.C.]

B.8. Excess Emissions Prohibited. 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.9. **Not federally enforceable.** Fuel Analysis. The permittee shall demonstrate compliance with the liquid fuel sulfur limit by means of a fuel analysis provided by the vendor upon each fuel delivery. See specific condition **B.15.** [Rule 62-213.440, F.A.C.]

Test Methods and Procedures

{Permitting Note: The attached Table 2, 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.10. Test Methods. Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

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

B.11. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310(7), F.A.C.]

B.12. Annual Compliance Tests Required. Except as provided in Specific Condition **B.16.**, during each federal fiscal year (October 1st to September 30th), each emissions unit shall be tested to demonstrate compliance with the emissions standards for visible emissions. [Rule 62-297.310(7), F.A.C.]

B.13. Compliance Tests Prior To Renewal. Compliance tests shall be performed for visible emissions once every 5 years. The tests shall occur prior to obtaining a renewed operating permit to demonstrate compliance with the visible emissions limit in Specific Condition **B.5.** [Rules 62-210.300(2)(a) and 62-297.310(7)(a), F.A.C.]

B.14. Visible Emissions Test Method. The test method for visible emissions shall be EPA Method 9, adopted and incorporated by reference in Rule 62-204.800, F.A.C., and referenced in Chapter 62-297, F.A.C. [Rules 62-204.800, 62-296.320(4)(b)4.a. and 62-297.401, F.A.C.]

B.15. Methods to Evaluate Fuel Sulfur Content. The fuel sulfur content, percent by weight, for liquid fuels shall be evaluated using either ASTM D2622-92, ASTM D4294-90, both ASTM D4057-88 and ASTM D129-91, or latest edition, or ASTM D1552-95 or an equivalent method after Department approval. [Rules 62-213.440 and 62-297.440, F.A.C.]

B.16. Visible Emissions Testing – Annual. By this permit, annual emissions compliance testing for visible emissions is not required for these emissions units while burning:
a. only gaseous fuels; or
b. gaseous fuels in combination with any amount of liquid fuels for less than 400 hours per year; or
c. only liquid fuels for less than 400 hours per year.
[Rules 62-297.310(7)(a)4. & 8., F.A.C.]

Recordkeeping and Reporting Requirements

B.17. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Notice of Malfunctions	Quarterly	B.20.
Operating Reports	April 1st	B.21.

B.18. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

B.19. Reporting Malfunction. In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the PCDEM 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. [Rule 62-210.700(6), F.A.C.]

B.20. Not Federally Enforceable. Operating Reports. The annual operating report shall be based on the following:
a. The Btu heating value, sulfur content (percent by weight), API gravity and density of the fuel being fired in the peaking units, shall be based on a weighted 12-month average (calendar year) and be calculated from the fuel delivery receipts and the vendors fuel oil analysis.
b. Until further notice by the PCDEM, Progress Energy Florida shall calculate annual emissions (pounds per hour and tons per year), for the Annual Operating Report, by multiplying the total million Btu from fuel usage by the following emissions factors:

Pollutant	Emissions Factors for No. 2 Fuel Oil Pound per MMBtu
Particulate Matter (PM)	0.061 (Total)
PM_{10}	0.48 PM
Carbon Monoxide	0.048
Sulfur Dioxide	1.01(S)
Nitrogen Oxides	0.698
Hydrocarbons (TOC)	0.017

"S" denotes sulfur content, percent by weight. The sulfur dioxide emissions shall be based on a weighted 12-month average "S" value.

[AO52-253215A, AO52-253216A, AO52-253217A and AO52-253218A]

B.21. Records of Fuel Consumption and Operating Time Required. The owner or operator shall make and maintain records of the hours of operation and the total fuel oil consumption in sufficient detail to ensure compliance with specific conditions of this permit. [Rule 62-4.070(3), F.A.C.]

Subsection C. Relocatable Diesel Generator (E. U. 001)

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

~~Facility ID No.~~	E.U. ID No.	Brief Description
~~7775047~~	~~001~~047	Relocatable diesel generator(s) will have a maximum (combined) heat input of 25.74 MMBtu/hour while being fueled by 186.3 gallons of new No. 2 fuel oil per hour with a maximum (combined) rating of 2460 kilowatts. Emissions from the generator(s) are uncontrolled.

The generators may be relocated to 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. Higgins Plant, Shore Drive, Oldsmar, Pinellas 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.
7. Anclote Power Plant, 1729 Baileys Road, Holiday, Pasco County.

{Permitting Notes: These emissions units are regulated under Rule 62-210.300, F.A.C., Permits Required. They were authorized by permit No. AC09-202080, which was issued as a relocatable facility (ID No. 7775047). Each generator has its own stack. This subsection of the permit is only applicable when the generators are located at the Bartow Facility.}

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

Essential Potential to Emit (PTE) Parameters

C.1. Permitted Capacity. The maximum (combined) heat input rate shall not exceed 25.74 million Btu per hour. [Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; and, AC09-202080.]

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

C.3. Methods of Operation – Fuels. Only new No. 2 fuel oil with a maximum sulfur content of 0.5%, by weight, shall be fired in the diesel generator(s). [Rule 62-213.410, F.A.C.; and, AC09-202080.]

C.4. Hours of Operation. The total hours of operation expressed as "engine-hours" shall not exceed 2,970 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, AC09-202080.]

Emission Limitations and Standards

{Permitting Note: The attached Table 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.}

Unless otherwise specified, the averaging time for specific condition **C.5.** is based on the specified averaging time of the applicable test method.

C.5. 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, AC09-202080.]

C.6. Sulfur Dioxide - Sulfur Content. The sulfur content of the No. 2 fuel oil shall not exceed 0.5 percent, by weight. [AC09-202080]

Excess Emissions

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

C.7. Excess Emissions Allowed. 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.]

C.8. Excess Emissions Prohibited. 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

C.9. Fuel Sulfur Analysis. 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 conditions **C.3., C.6.** and **C.145.** [Rule 62-213.440, F.A.C. and AC09-202080.]]

Test Methods and Procedures

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

C.10. Test Methods. Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

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

C.11. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, of this permit. [Rule 62-297.310(7), F.A.C.]

C.12. Annual Compliance Tests Required. Except as provided in Specific Condition **C.14.**, during each federal fiscal year (October 1st to September 30th), each emissions unit shall be tested to demonstrate compliance with the emissions standards for visible emissions. [Rule 62-297.310(7), F.A.C.]

C.13. Compliance Tests Prior To Renewal. Compliance tests shall be performed for visible emissions once every 5 years. The tests shall occur prior to obtaining a renewed operating permit to demonstrate compliance with the emission limits in Specific Condition **C.5.** No VE is required if the units have not been relocated to the site during the 5-year permit cycle of the Title V Operating permit. [Rules 62-210.300(2)(a) and 62-297.310(7)(a), F.A.C.]

C.14. Visible Emission Test Method. 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.]

C.15. Methods to Evaluate Fuel Sulfur Content. 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, or the latest edition(s), or ASTM D1552-95 or an equivalent method after Department approval. [Rules 62-213.440 and 62-297.440, F.A.C.; and, AC09-202080.]]

C.16. 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.]

C.17. Testing After Each Relocation. 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 **C.3.**, **C.5.**, **C.6.** and **C.14.** [Rules 62-4.070(3) and 62-297.310(7)(b),F.A.C.; ~~and, AO09-205952;~~ and, AC09-202080.].]

Recordkeeping and Reporting Requirements

C.18. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Notice of Malfunctions	Quarterly, If Requested	C.~~19~~. 20
Notice of Relocation	15 Days Prior To Relocation	C.~~23~~. 25

C.19. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

C.20. Malfunction Reporting. In the case of excess emissions resulting from malfunctions, the owner or operator shall notify PCDEM, if a generator is located in Pinellas County, 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 PCDEM. [Rule 62-210.700(6), F.A.C.]

C.21. 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 Department on the results of each such test.
c. The required test report shall be filed with the Southwest District Office and the Air Quality Division of the Pinellas County Department of Environmental Management, if a generator is located in Pinellas County, 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 Southwest District Office and the Air Quality Division of the PCDEM, if a generator is located in Pinellas County, within 45 days of testing.

[Rule 62-297.310(8), F.A.C. ~~and, AO09-25952~~ and AC09-202080.]]

C.22. Special Daily Compliance. To demonstrate compliance with specific condition **C.4.**, records shall indicate the daily hours of operation for each of the generators, the daily hours of operation expressed as "engine- hours" and the 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 and the Air Quality Division of the PCDEM upon request. [Rules 62-213.440 and 62-297.310(8), F.A.C. ~~and, AO09-205952.~~; and, AC09-202080.]]

C.23. Special Sulfur Records Compliance. To demonstrate compliance with specific condition **C.3.**, 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 and the Air Quality Division of the PCDEM upon request. [Rule 62-297.310(8), F.A.C. and AC09-202080.]

Source Obligation

C.24. Prevention of Significant Deterioration Avoidance. Specific conditions in construction permit AC09-202080, limiting the "engine hours", were accepted by the applicant to escape Prevention of Significant Deterioration new source review. If Progress Energy Florida requests a relaxation of any of the federally

enforceable emission limits in this permit section, the relaxation of limits may be subject to the preconstruction review requirements of Rule 62-212.400(5), F.A.C., as though construction had not yet begun. [Rule 62-212.400(2)(g), F.A.C. and AC09-202080.]

C.25. Notification of Relocation. Progress Energy Florida shall notify the Department's Southwest District Office, in writing, at least 15 days prior to the date on which any diesel generator is to be relocated. The notification shall specify the following:

a. Which generator, by serial number, is being relocated,
b. Which location the generator is being relocated from and which location it is being relocated to, and
c. The approximate startup date at the new location.

If a diesel generator is to be relocated within Pinellas County, then Progress Energy Florida shall provide the same notification to the Air Quality Division of the PCDEM. [Rule 62-4.070(3), F.A.C. and AC09-202080]

The specific conditions in this subsection apply to the following emissions units:

E.U. ID	Emissions Units Comprising Combined Cycle Unit 4 and Simple Cycle Unit 5
038	Unit 4A – One 215 MW (ISO) Combustion Turbine with Duct-fired Heat Recovery Steam Generator
039	Unit 4B – One 215 MW (ISO) Combustion Turbine with Duct-fired Heat Recovery Steam Generator
040	Unit 4C – One 215 MW (ISO) Combustion Turbine with Duct-fired Heat Recovery Steam Generator
041	Unit 4D – One 215 MW (ISO) Combustion Turbine with Duct-fired Heat Recovery Steam Generator

Emissions Unit 4 consists of four ("4-on-1") Siemens SGT6-501~~00~~F gas turbine-electrical generator set (Units 4A-4D) with a generating capacity of 215 MW (each) for gas firing at ISO conditions when practicing power (steam) augmentation. Exhaust from each gas turbine passes through a separate supplementary 500 MMBtu/hr gas fired heat recovery steam generator (HRSG). Steam from each HRSG is delivered to the 420 MW single steam turbine-electrical generator (STG). .

Each combustion turbine (CT) has 2 ~~a single stack~~ stacks that ~~is~~ are equipped with continuous emissions monitoring systems (CEMS) to measure and record ~~CO~~ NO_X in simple-cycle and CO and NO_X emissions in combined-cycle, as well as flue gas oxygen or carbon dioxide content.

Each CT within the combined-cycle unit system is permitted to operate in simple-cycle by directing the exhaust to a bypass stack instead of the respective heat recovery steam generator (HRSG) exhaust stack. All 8 stacks measure approximately 120 feet in height. Each CT is capable of firing backup low sulfur (<0.05% S) distillate fuel oil for the equivalent of 1,000 hours per year (hr/yr). All CTs are equipped with evaporative coolers to condition incoming air at high ambient temperatures.

Emissions of CO, PM/PM_{10}, SAM, SO_2 and VOC are controlled by the efficient combustion of natural gas and restricted firing of low sulfur distillate fuel oil. NO_X emissions are controlled by ~~Dry~~ Ultra Low-NO_X (~~D~~ ULN) combustion technology for gas firing and water injection for oil firing.

The total generating capacity of ~~the~~ Power Block 4, which includes 4 combined-cycle CTs and STG ~~units~~ is ~~1,475~~ 1280 MW. Theses units commenced operation in November and December 2008.

{Permitting Note: These emissions units were reviewed under the rules for the Prevention of Significant Deterioration (PSD), Rule 62-212.400, F.A.C. Best Available Control Technology (BACT) determinations were made for carbon monoxide (CO) and volatile organic compounds (VOC) in accordance with Rule 62-210.200 (Definitions). These units are also regulated under Acid Rain-Phase II, 40CFR60 - NSPS, Subpart KKKK and 40CFR63 - NESHAP, Subpart YYYY; Rule 62-212.400 (PSD), F.A.C.}

Applicable Standards and Regulations

D.1. NSPS Requirements. Each CT shall comply with all applicable requirements of 40 CFR 60, listed below, adopted by reference in Rule 62-204.800(7)(b), F.A.C.

a. *Subpart A - General Provisions*, including:
- 40 CFR 60.7, Notification and Record Keeping
- 40 CFR 60.8, Performance Tests
- 40 CFR 60.11, Compliance with Standards and Maintenance Requirements
- 40 CFR 60.12, Circumvention
- 40 CFR 60.13, Monitoring Requirements
- 40 CFR 60.19, General Notification and Reporting Requirements

b. Subpart KKKK - Standards of Performance for Stationary Combustion Turbines: These provisions were finalized on July 6, 2006 and include requirements applicable to duct burners located in HRSGs.

D.2. NESHAP Requirements. The CTs are subject to 40 CFR 63, Subpart A - Identification of General Provisions and 40 CFR 63, Subpart YYYY - National Emissions Standard for Hazardous Air Pollutants for Stationary Combustion Turbines. [Rule 62-204.800(11)(b), F.A.C.]

Equipment And Control Technology

D.3. Combustion Turbines (CTs). The permittee is authorized to tune, operate, and maintain four Model SGT6-5010~~0~~F CT-electrical generator sets. Each CT shall include an automated control system and have dual-fuel capability. Ancillary equipment includes an inlet air filtration system, evaporative inlet air-cooling system and a nominal 120 foot exhaust stack for simple cycle operation. [1030011-010-AC; Design]

D.4. Heat Recovery Steam Generators (HRSGs). The permittee is authorized to operate and maintain four new duct-fired HRSGs that recover exhaust heat energy from four of the CTs and deliver steam to a nominal 420 MW steam turbine electrical generator. Each HRSG shall be equipped with a nominal 120 foot exhaust stack for combined cycle operation. [1030011-010-AC; Design]

D.5. DLN Combustion. The permittee shall operate and maintain ~~Dry~~ Ultra Low NO_X (~~D~~ULN) systems to control NO_X emissions from each CT when firing natural gas. Each system shall be maintained and tuned in accordance with the manufacturer's recommendations or industry standards. [1030011-010-AC; Design]

D.6. Water Injection. The permittee shall operate, and maintain a water injection system to reduce NO_X emissions from each CT when firing distillate fuel oil. Each system shall be maintained and tuned in accordance with the manufacturer's recommendations or industry standards. [1030011-010-AC; Design]

D.7. Selective Catalytic Reduction Systems. The permittee is authorized to tune, operate, and maintain a selective catalytic reduction (SCR) system within each HRSG to control NO_X emissions from each of the four CT/Duct-fired HRSGs comprising the combined cycle unit. The SCR system consists of an ammonia (NH_3) injection grid, catalyst, ammonia storage, monitoring and control system, electrical, piping and other ancillary equipment. The SCR system shall be designed, constructed and operated to achieve the permitted levels for NO_X and NH_3 emissions. Operation of the SCR systems is not required when the NO_X emission limits can be met without their use. [1030011-010-AC; Design, and 62-210.650 (Circumvention), F.A.C.]

D.8. Oxidation Catalyst Systems. The permittee shall have designed and built the project to facilitate future installation of an oxidation catalyst system within each HRSG to control CO and VOC emissions from each of the four CTs/Duct-fired HRSGs comprising the combined cycle unit. The permittee may install oxidation catalyst during project construction or, after notifying the Department, at a future date as described in Specific Condition **D.17.f.** [Rule 62-4.070(3) F.A.C.]

D.9. Ammonia Storage. In accordance with 40 CFR 60.130, the storage of ammonia shall comply with all applicable requirements of the Chemical Accident Prevention Provisions in 40 CFR 68. [Rule 62-4.070 F.A.C.]

Essential Potential to Emit (PTE) Parameters

D.10. Permitted Capacity - Combustion Turbines. The nominal heat input rate excluding steam for power augmentation to each CT is 1,972 MMBtu per hour when firing natural gas and 1,876 MMBtu per hour when firing distillate fuel oil based on a compressor inlet air temperature of 59° F, the higher heating value (HHV) of each fuel, and 100% load. Heat input rates will vary depending upon CT characteristics, ambient conditions, alternate methods of operation, and evaporative cooling. The permittee shall provide manufacturer's performance curves (or equations) that correct for site conditions to the Permitting and Compliance Authorities within 45 days of completing the initial compliance testing. Operating data may be adjusted for the appropriate site conditions in accordance with the performance curves and/or equations on file with the Department. [Rule 62-210.200(Definitions - PTE), F.A.C.; and, 1030011-010-AC]

D.11. Permitted Capacity - Duct Burners. The total nominal heat input rate to the duct burners (DBs) located within each HRSG is 500 MMBtu per hour based on the higher heating value (HHV) of natural gas. Only natural gas shall be fired in the duct burners. [Rule 62-210.200(Definitions - PTE), F.A.C.; and, 1030011-010-AC]

D.12. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]

D.13. Authorized Fuels. Each CT shall fire only natural gas and distillate oil. The maximum sulfur content of natural gas shall not exceed 2.0 grains of sulfur per 100 standard cubic feet of natural gas. The maximum sulfur content of distillate oil shall not exceed 0.05% by weight. [Design; Rules 62-4.070 and 62-210.200 (Definitions – PTE), F.A.C.; 40 CFR 60, Subpart KKKK; and, 1030011-010-AC]

D.14. Restricted Operation. The permittee shall not exceed the following parameters following shutdown of Units 1, 2 and 3:

a. The hours of operation of the CTs are not limited (8,760 hours per year).
b. Distillate oil firing is limited to ~~5~~ 4,000 hours total aggregate for all four ~~five~~ CTs (based on an average of 1,000 hours per CT) during any consecutive 12-month period.
c. Operation of the DBs is limited to 9,736 hours aggregate for four DBs (based on an average of 2,434 hours per DB) during any consecutive 12-month period.
d. Power (steam) augmentation shall be limited to 6,752 hours aggregate for the four CTs comprising Unit 4 (based on an average of 1,688 hours per CT) during any consecutive 12-month period.
e. Other than startup, shutdown, fuel switching or documented malfunction, simple cycle CT operations shall be at a load not less than 45% or that load at which compliance was demonstrated during the initial compliance test ~~at initial~~, whichever is higher.

[Application; Rules 62-4.070 (3) and 62-212.400(BACT), F.A.C.; and, 1030011-010-AC]

D.15. Methods of Operation. Subject to the restrictions and requirements of this permit, the CTs may commence commercial operation and thereafter operate under the following methods of operation ~~after Units 1, 2 and 3 cease commercial operation (Commence commercial operation means to have begun to generate electricity for sale, including the sale of test generation.)~~:

a. *Simple Cycle (SC) Operation.* All four CTs may operate in simple cycle (SC) mode whereby the turbine exhaust gas (TEG) exits through or is diverted to a stack unassociated with a DB-fired HRSG. This method of operation will be an infrequent occurrence for the four CTs that will typically operate in combined cycle mode as described below.
b. *Combined Cycle (CC) Operation.* The four CTs associated with combined cycle Unit 4 may operate in combined cycle (CC) mode whereby the TEG is exhausted to their respective duct-fired HRSGs for energy recovery in order to raise steam to drive the single steam turbine-electrical generator (STG) subject to the restrictions of this permit.
c. *Inlet Conditioning.* In accordance with the manufacturer's recommendations and appropriate ambient conditions, the evaporative cooling systems may be operated to reduce the compressor inlet air temperature and provide additional direct, shaft-driven electrical power.
d. *Duct Firing.* The DB within each HRSG may be fired with natural gas to reheat the TEG in order to provide additional steam to the STG or the CTs for power augmentation.
e. *Power augmentation.* Power (Steam) Augmentation (PA): Steam for PA is taken from the HRSG and is introduced into the CT compressor discharge, thus increasing the power produced by the expander portion of the turbine.

[Application; Rules 62-210.200(PTE) and 62-212.400(BACT), F.A.C; and, 1030011-010-AC.]

Emissions Standards

{Permitting Note: The attached Table 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.}

Unless otherwise specified, the averaging times for Specific Conditions **D.16. – D.19.** are based on the specified averaging time of the applicable test method.

D.16. New Source Performance Standards for NO_X. Emissions of NO_X shall not exceed the following emission limits for each CT or CT/DB-fired HRSG determined pursuant to 40 CFR 60, Subpart KKKK.

Pollutant	Fuel	Method of Operation [a]	CEMS [b] Rolling Average ppmvd (uncorrected)
NO_X [c]	Oil	CT (SC)	42 on 4-hour basis
		CT (CC)	42 on 30-operating days basis
	Gas	CT (SC)	15 on 4-hour basis
		CT (CC)	15 on 30-operating days basis
		CT & DB	

a. CT (SC) means operation of CT in simple cycle mode. CT(CC) means operation of CT in combined cycle without use of the DB. CT & DB means operation in combined cycle mode and using the DB.
b. A CEMS for NO_X shall be installed on the CT stacks and on the HRSG stacks. Correction to 15% O_2 is required consistent with the provisions of 40 CFR 60, Subpart KKKK.
c. Compliance with the continuous NO_X standards shall be demonstrated based on data collected by the required CEMS.

Refer to Appendix KKKK of this permit for the full NSPS requirements. [40 CFR 60, Subpart KKKK]

D.17. Best Available Control Technology (BACT) Emissions Standards for CO and VOC. Emissions of VOC and CO shall not exceed the following emission limits for each CT or CT/DB-fired HRSG.

Pollutant	Fuel	Method of Operation [a]	Stack Test, 3-Run Average		CEMS [c] Block Average
			ppmvd @ 15% O_2	lb/hr [b]	ppmvd @ 15% O_2
Unit 4 HRSG Stacks					
CO	Oil	CT	8.0	40.4	8.0, 24-hr [d] 6, 12-month [f]
	Gas	CT	4.1	20.8	
		CT & DB	7.6	38.3	
VOC [e,g]	Oil	CT	2.8	7.6	Not Applicable
	Gas	CT	1.2	3.0	
		CT & DB	1.5	3.8	
Unit 4 Bypass Stacks					
CO	Oil	CT	8.0	40.4	Not Applicable
	Gas	CT	4.1	20.8	
VOC [e]	Oil	CT	2.8	7.6	Not Applicable
	Gas	CT	1.2	3.0	

a. CT means operation of a combustion turbine (CT) in simple cycle or in combined cycle without use of the duct burner (DB). CT & DB means operation in combined cycle mode and using the DB.

b. The mass emission rate standards are based on a turbine inlet condition of 59° F and may be adjusted to actual test conditions in accordance with the performance curves and/or equations on file with the Department.
c. CEMS for CO are required only on the HRSG stacks. Other than startup, shutdown, fuel switching or documented malfunction, simple cycle CT operations shall be at a load not less than 45% or that load at which compliance was demonstrated during the initial compliance test ~~at initial~~, whichever is higher.
d. Compliance with the continuous 24-hour CO standards shall be demonstrated based on data collected by the required CEMS on the HRSG stacks. The initial and annual EPA Method 10 tests associated with the certification of the CEMS instruments may also be used to demonstrate compliance with the individual standards for natural gas, fuel oil, or duct burner modes. Separate CO tests shall be conducted under simple cycle mode on the CT stacks.
e. Compliance with the VOC standards shall be demonstrated by conducting tests in accordance with EPA Method 25A on the HRSG stacks and, under simple cycle mode, on the CT stacks. Optionally, EPA Method 18 may also be performed to deduct emissions of methane and ethane. The emission standards are based on VOC measured as methane.
f. *Rolling Average*. Enforcement discretion may be exercised for up to 12 months with respect to the 6 ppmvd @15% O_2 limit for any CT/Duct-fired HRSG upon notification by the permittee of intent to install oxidation catalyst. The permittee shall have 12 months to complete the oxidation catalyst installation. From time of notification to installation of the catalyst all partial or complete calendar months shall be excluded from the 12-month rolling average.
g. Compliance with the CO CEMS based limits shall be deemed as compliance with the VOC limit.

[Rule 62-210.200(Definitions – BACT) and 62-212.400 F.A.C.; and, 1030011-010-AC]

D.18. New Source Performance Standard for SO_2. Pursuant to §60.4330(a)(2), SO_2 emissions are limited in NSPS Subpart KKKK by a prohibition on the firing of any fuels that contain total potential sulfur emissions in excess of 0.060 lb SO_2/MMBtu heat input. Refer to Appendix KKKK of this permit for the full NSPS requirements. [40 CFR 60, Subpart KKKK]

D.19. Measures to Limit Particulate Emissions (PM/PM_{10}/Fine Particulate Matter). The following measures and limitations, in conjunction with decreases from other units, effectively limit combined annual PM/PM_{10} emissions to a level that ensures net emissions increases are well below the significant emission rate at which PSD applies and a subsequent BACT determination is required. These measures also minimize fine particulate emissions and formation:
a. *Fuel Sulfur Limits*. The sulfur concentration shall be limited to 2 grains per 100 standard cubic feet of natural gas. The sulfur concentration in the distillate fuel oil used shall be limited to 0.05 percent. Compliance with the fuel specifications shall be demonstrated by keeping records of the fuel sulfur content.
b. *Visible Emissions*. Visible emissions shall not exceed 10 percent opacity for each 6-minute block average. Compliance with the visible emissions standard shall be demonstrated by conducting tests in accordance with EPA Method 9.
c. *Ammonia Emissions (Slip) Limits*. Ammonia emissions shall be limited to 5 ppmvd @15% O_2. Compliance with the ammonia slip standard shall be demonstrated by conducting tests in accordance with EPA Methods TM-027 or 320.

[62-212.400(12)(PSD Avoidance); and, 1030011-010-AC]

Excess Emissions

The following conditions apply only to the SIP-based emissions standards specified in Specific Condition **D.17.** of this permit. Rule 62-210.700, F.A.C. (Excess Emissions) cannot vary or supersede any federal provision of the NSPS or Acid Rain programs.

D.20. Operating Procedures. The Best Available Control Technology (BACT) determinations established by this permit rely on "good operating practices" to reduce emissions. Therefore, all operators and supervisors shall be properly trained to operate and maintain the CTs, HRSGs, and pollution control systems in accordance with the guidelines and procedures established by each manufacturer. The training shall include good operating practices as well as methods of minimizing excess emissions. [Rules 62-4.070(3) and 62-212.400(BACT), F.A.C.]

D.21. Alternate Visible Emissions Standard. Visible emissions due to startups, shutdowns, and malfunctions shall not exceed 10% opacity except for up to ten, 6-minute averaging periods during a calendar day, which shall not exceed 20% opacity. [Rule 62-212.400(BACT), F.A.C.; and, 1030011-010-AC]

D.22. Definitions

a. *Startup* is defined as the commencement of operation of any emissions unit which has shut down or ceased operation for a period of time sufficient to cause temperature, pressure, chemical or pollution control device imbalances, which result in excess emissions. [Rule 62-210.200(245), F.A.C.]
b. *Shutdown* is the cessation of the operation of an emissions unit for any purpose. [Rule 62-210.200(230), F.A.C.]
c. *Malfunction* is defined as any unavoidable mechanical and/or electrical failure of air pollution control equipment or process equipment or of a process resulting in operation in an abnormal or unusual manner. [Rule 62-210.200(159), F.A.C.]

D.23. Excess Emissions Allowed and Allowable Data Exclusions. As per the procedures in this condition, limited amounts of CO CEMS emissions data may be excluded from the corresponding SIP-based compliance demonstration, provided that best operational practices to minimize emissions are adhered to and the duration of data excluded is minimized. As provided by the authority in Rule 62-210.700(5), F.A.C., these conditions replace the provisions in Rule 62-210.700(1), F.A.C. For each CT/HRSG system, excess emissions resulting from startup, shutdown, and documented malfunctions shall not exceed two hours in any 24-hour period except for the specific cases listed below. A "documented malfunction" means a malfunction that is documented within one working day of detection by contacting the Compliance Authority by telephone, facsimile transmittal, or electronic mail.

a. *Steam Turbine/HRSG System Cold Startup.* For cold startup of the steam turbine system, up to 8 hours of excess emissions from any CT/HRSG system may be excluded in any 24-hour period. A cold "startup of the steam turbine system" is defined as startup of the 4-on-1 combined cycle system following a shutdown of the steam turbine lasting at least 48 hours.
{Permitting Note: During a cold startup of the steam turbine system, each CT/HRSG system is sequentially brought on line at low load to gradually increase the temperature of the steam-electrical turbine and prevent thermal metal fatigue. Note that shutdowns and documented malfunctions are separately regulated in accordance with the requirements of this condition.}
b. *Shutdown Combined Cycle Operation.* For shutdown of the combined cycle operation, up to 3 hours in any 24-hour period of excess emissions from any CT/HRSG system can be excluded.
c. *CT/HRSG System Cold Startup.* For cold startup of a CT/HRSG system, up to 4 hours in any 24-hour period can be excluded. "Cold startup of a CT/HRSG system" is defined as a startup after the pressure in the high-pressure (HP) steam drum falls below 450 psig for at least a one-hour period.
d. *Simple Cycle CT Startup.* For startup of a CT for the purpose of operation in simple cycle mode, up to 1 hour or 60 minutes of CEMS data in any 24-hour period of excess emissions can be excluded.
e. *Fuel Switching.* For fuel switching, up to 2 hours in any 24-hour period can be excluded.

[1030011-010-AC]

D.24. Excess Emissions Prohibited. Excess emissions caused entirely or in part by poor maintenance, poor operation or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. All such preventable emissions shall be included in any compliance determinations based on CEMS data. [Rule 62-210.700(4), F.A.C.]

D.25. DLN Tuning. CEMS data collected during initial or other major ~~D~~ULN tuning sessions shall be excluded from the CEMS compliance demonstration provided the tuning session is performed in accordance with the manufacturer's specifications. A "major tuning session" " would occur after completion of initial construction, a combustor change-out, a major repair or maintenance to a combustor, or other similar circumstances. Prior to performing any major tuning session, the permittee shall provide the Compliance Authority with an advance notice of at least 7 days that details the activity and proposed tuning schedule. The notice may be by telephone, facsimile transmittal, or electronic mail. [Design; Rule 62-4.070(3), F.A.C.; and, 1030011-010-AC]

Continuous Monitoring Requirements

D.26. CEM Systems. The permittee shall calibrate, maintain, and operate continuous emission monitoring systems (CEMS) to measure and record the emissions of CO from the HRSG stacks and NO_X from all stacks in a manner sufficient to demonstrate continuous compliance with the CEMS emission standards of this subsection. Each monitoring system shall be installed, calibrated, and properly functioning prior to the initial performance tests. Within one working day of discovering emissions in excess of a CO or NO_X standard (and subject to the specified averaging period), the permittee shall notify the Compliance Authority.

a. *CO Monitors.* The CO monitors shall be certified pursuant to 40 CFR 60, Appendix B, Performance Specification 4 or 4A within 60 calendar days of achieving permitted capacity as defined in Rule 62-297.310(2), F.A.C., but no later than 180 calendar days after initial startup. Quality assurance procedures shall conform to the requirements of 40 CFR 60, Appendix F, and the Data Assessment Report of Section 7 shall be made each calendar quarter, and reported semiannually to the Compliance Authority. The RATA tests required for the CO monitor shall be performed using EPA Method 10 in Appendix A of 40 CFR 60. The CO monitor span values shall be set appropriately considering the allowable methods of operation and corresponding emission standards.

b. *NO_X Monitors.* Each NO_X monitor shall be certified, operated, and maintained in accordance with the requirements of 40 CFR 75. Record keeping and reporting shall be conducted pursuant to Subparts F and G in 40 CFR 75. The RATA tests required for the NO_X monitor shall be performed using EPA Method 7E in Appendix A of 40 CFR 60.

c. *Diluent Monitors.* The oxygen (O_2) or carbon dioxide (CO_2) content of the flue gas shall be monitored at the location where NOx and CO are monitored to correct the measured emissions rates to 15% oxygen. If a CO_2 monitor is installed, the oxygen content of the flue gas shall be calculated using F-factors that are appropriate for the fuel fired. Each monitor shall comply with the performance and quality assurance requirements of 40 CFR 75.

[1030011-010-AC]

D.27. CEM Data Requirements.

a. *Data Collection.* Emissions shall be monitored and recorded at all times including startup, operation, shutdown, and malfunction except for continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments. The CEMS shall be designed and operated to sample, analyze, and record data evenly spaced over an hour. If the CEMS measures concentration on a wet basis, the CEM system shall include provisions to determine the moisture content of the exhaust gas and an algorithm to enable correction of the monitoring results to a dry basis (0% moisture). Alternatively, the owner or operator may develop through manual stack test measurements a curve of moisture contents in the exhaust gas versus load for each allowable fuel, and use these typical values in an algorithm to enable correction of the monitoring results to a dry basis (0% moisture). Final results of the CEMS shall be expressed as ppmvd of NO_X and CO corrected to 15% oxygen. The CEMS shall be used to demonstrate compliance with the CEMS emission standards for CO and NO_X as specified in this permit. For purposes of determining compliance with the CEMS emissions standards of this permit, missing (or excluded) data shall not be substituted. Upon request by the Department, the CEMS emission rates shall be corrected to ISO conditions.

b. *Valid Hour*. Hourly average values shall begin at the top of each hour. Each hourly average value shall be computed using at least one data point in each fifteen-minute quadrant of an hour, where the unit combusted fuel during that quadrant of an hour. Notwithstanding this requirement, an hourly value shall be computed from at least two data points separated by a minimum of 15 minutes (where the unit operates for more than one quadrant of an hour). If less than two such data points are available, the hourly average value is not valid. An hour in which any oil is fired is attributed towards compliance with the permit standards for oil firing. The permittee shall use all valid measurements or data points collected during an hour to calculate the hourly average values.

c. *24-hour Block Averages*. A 24-hour block shall begin at midnight of each operating day and shall be calculated from 24 consecutive hourly average emission rate values. If a unit operates less than 24 hours during the block, the 24-hour block average shall be the average of all available valid hourly average emission rate values for the 24-hour block. For purposes of determining compliance with the 24-hour CEMS standards, the missing data substitution methodology of 40 CFR Part 75, subpart D, shall not be utilized. Instead, the 24-hour block average shall be determined using the remaining hourly data in the 24-hour block. [Rule 62-212.400(BACT), F.A.C.]

d. *Data Exclusion.* Each CEMS shall monitor and record emissions during all operations including episodes of startup, shutdown, malfunction, fuel switches and DLN tuning. Some of the CEMS emissions data recorded during these episodes may be excluded from the corresponding CO CEMS compliance demonstration subject to the provisions of Condition Nos. 24 and 25 of this subsection. All periods of data excluded shall be consecutive for each such episode and only data obtained during the described episodes (startup, shutdown, malfunction, fuel switches, DLN tuning) may be used for the appropriate exclusion periods. The permittee shall minimize the duration of data excluded for such episodes to the extent practicable. Data recorded during such episodes shall not be excluded if the episode was caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure, which may reasonably be prevented. Best operational practices shall be used to minimize hourly emissions that occur during such episodes. Emissions of any quantity or duration that occur entirely or in part from poor maintenance, poor operation, or any other equipment or process failure, which may reasonably be prevented, shall be prohibited.

e. *Availability*. Monitor availability for the CEMS shall be 95% or greater in any calendar quarter. The quarterly excess emissions report shall be used to demonstrate monitor availability. In the event 95% availability is not achieved, the permittee shall provide the Department with a report identifying the problems in achieving 95% availability and a plan of corrective actions that will be taken to achieve 95% availability. The permittee shall implement the reported corrective actions within the next calendar quarter. Failure to take corrective actions or continued failure to achieve the minimum monitor availability shall be violations of this permit.

[Rules 62-4.070(3) and 62-212.400(12), F.A.C.; 40 CFR 75; and, 1030011-010-AC]

D.28. Ammonia Monitoring Requirements. In accordance with the manufacturer's specifications, the permittee shall calibrate, operate and maintain an ammonia flow meter to measure and record the ammonia injection rate to the SCR system by the time of the initial compliance tests. The permittee shall document and periodically update the general range of ammonia flow rates required to meet permitted emissions levels over the range of load conditions allowed by this permit by comparing NO_X emissions recorded by the CEM system with ammonia flow rates recorded using the ammonia flow meter. During NO_X monitor downtimes or malfunctions, the permittee shall operate at the ammonia flow rate and, as applicable for fuel oil firing, the water-to-fuel ratio, that are consistent with the documented flow rate for the CT load condition. [Rules 62-4.070(3), F.A.C.; and, 1030011-010-AC]

Test Methods and Procedures

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

D.29. Test Methods. Any required tests shall be performed in accordance with the following reference methods.

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
CTM-027	Procedure for Collection and Analysis of Ammonia in Stationary Source. {Notes: This is an EPA conditional test method.} The minimum detection limit shall be 1 ppm.
320	Measurement of Vapor Phase Organic and Inorganic Emissions by Extractive Fourier Transform Infrared (FTIR) Spectroscopy
7E	Determination of Nitrogen Oxide Emissions from Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources
10	Determination of Carbon Monoxide Emissions from Stationary Sources {Notes: The method shall be based on a continuous sampling train.}
18	Measurement of Gaseous Organic Compound Emissions by Gas Chromatography {Note: EPA Method 18 may be used (optional) concurrently with EPA Method 25A to deduct emissions of methane and ethane from the measured VOC emissions.}
25A	Determination of Volatile Organic Concentrations

No other methods may be used unless prior written approval is received from the Department. [Rules 62-204.800, F.A.C.; 40 CFR 60, Appendix A]

D.30. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

D.31. Annual Compliance Tests. During each federal fiscal year (October 1st to September 30th), each CT shall be tested to demonstrate compliance with the emission standards for visible emissions. Combined cycle CO emissions data collected during the required continuous monitor Relative Accuracy Test Audits (RATAs) may be used to demonstrate compliance with the CO standards. Annual testing to determine the ammonia slip shall be conducted while firing the primary fuel. NO_X emissions recorded by the CEMS shall be reported for each ammonia slip test run. Annual compliance tests for VOC emissions are not required. Compliance with the continuously monitored CO standards shall indicate efficient combustion and low VOC emissions. The Department retains the right to require VOC testing for the reasons such as exceedance of the CO limit or those given in Appendix TR, Special Compliance Tests. [Rules 62-212.400, 62-210.200 (243) (BACT), 62-4.070 (3) and 62-297.310(7)(a)4, F.A.C.; and, 1030011-010-AC]

D.32. Subsequent Compliance Determinations. The Department may require the permittee to conduct additional tests after major replacement or major repair of any air pollution control equipment, such as the SCR catalyst, oxidation catalyst, DLN combustors, etc. [Rule 62-297.310(7)(a)1, F.A.C. and 40 CFR 60.8.; and, 1030011-010-AC]

D.33. Continuous Compliance. The permittee shall demonstrate continuous compliance with the 24-hour and 12-month CO emission standards, and the NO_X emissions standards based on data collected by the certified CEMS. Within 45 days of conducting any RATA on a CEMS, the permittee shall submit a report to the Compliance Authority summarizing results of the RATA. Compliance with the CO emission standards also serves as an indicator of efficient fuel combustion and oxidation catalyst operation, which reduces emissions of particulate matter and volatile organic compounds. [Rule 62-212.400 (BACT), F.A.C.]

Recordkeeping and Reporting Requirements

D.34. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Notice of Excess Emissions	Varied	D.39.

D.35. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

D.36. Monitoring of Capacity. The permittee shall monitor and record the operating rate of each CT and HRSG duct burner system on a daily average basis, considering the number of hours of operation during each day (including the times of startup, shutdown and malfunction). Such monitoring shall be made using a monitoring component of the CEM system required above, or by monitoring daily rates of consumption and heat content of each allowable fuel in accordance with the provisions of 40 CFR 75 Appendix D. [Rules 62-4.070(3) and 62-212.400(BACT), F.A.C.]

D.37. Monthly Operations Summary. By the 10th calendar day of each month, the permittee shall record the following for each fuel in a written or electronic log for each CT for the previous month of operation: fuel consumption, hours of operation, hours of duct firing, and the updated 12-month rolling totals for each. Information recorded and stored as an electronic file shall be available for inspection and printing within at least three days of a request by the Department. The fuel consumption shall be monitored in accordance with the provisions of 40 CFR 75 Appendix D. [Rules 62-4.070(3), 62-212.400, 62-210.200 (38) and 62-210.200 (243)(BACT), F.A.C.]

D.38. Fuel Sulfur Records. The permittee shall demonstrate compliance with the fuel sulfur limits specified in this permit by maintaining the following records of the sulfur contents.

a. *Natural Gas Sulfur Limit.* Compliance with the fuel sulfur limit for natural gas shall be demonstrated by keeping reports obtained from the vendor indicating the average sulfur content of the natural gas being supplied from the pipeline for each month of operation. Methods for determining the sulfur content of the natural gas shall be ASTM methods D4084-82, D4468-85, D5504-01, D6228-98 and D6667-01, D3246-81. More recent versions of these methods or other Department approved methods may be used.

b. *Distillate Fuel Oil Sulfur Limit.* Compliance with the distillate fuel oil sulfur limit shall be demonstrated by taking a sample, analyzing the sample for fuel sulfur, and reporting the results to each Compliance Authority before initial startup. Sampling the fuel oil sulfur content shall be conducted in accordance with ASTM D4057-88, Standard Practice for Manual Sampling of Petroleum and Petroleum Products, and one of the following test methods for sulfur in petroleum products: ASTM methods D5453-00, D129-91, D1552-90, D2622-94, or D4294-90. More recent versions of these methods or other Department approved methods may be used. For each subsequent fuel delivery, the permittee shall maintain a permanent file of the certified fuel sulfur analysis from the fuel vendor or other fuel sulfur analysis performed on each delivery. At the request of a Compliance Authority, the permittee shall perform additional sampling and analysis for the fuel sulfur content.

The above methods shall be used to determine the fuel sulfur content in conjunction with the provisions of 40 CFR 75 Appendix D. [Rules 62-4.070(3) and 62-4.160(15), F.A.C.]

D.39. Excess Emissions Reporting.

a. *Malfunction Notification.* If emissions in excess of a standard (subject to the specified averaging period) occur due to malfunction, the permittee shall notify the Compliance Authority within (1) working day of: the nature, extent, and duration of the excess emissions; the cause of the excess emissions; and the actions taken to correct the problem. In addition, the Department may request a written summary report of the incident.

b. *SIP Quarterly Permit Limits Excess Emissions Report*. Within 30 days following the end of each calendar-quarter, the permittee shall submit a report to the Compliance Authority summarizing periods of CO emissions in excess of the BACT permit standards following the NSPS format in 40 CFR 60.7(c), Subpart A. Periods of startup, shutdown and malfunction, shall be monitored, recorded and reported as excess emissions when emission levels exceed the standards specified in this permit. In addition, the report shall summarize the CEMS systems monitor availability for the previous quarter. A summary of data excluded from SIP compliance calculations should also be provided.

c. *NSPS Semi-Annual Excess Emissions Reports*. Within thirty (30) days following each calendar semi-annual period, the permittee shall submit a report on any periods of excess emissions of the applicable NSPS that occurred during the previous semi-annual period.

{Note: If there are no periods of excess emissions as defined in NSPS Subpart KKKK, a statement to that effect may be submitted with the SIP Quarterly Report to suffice for the NSPS Semi-Annual Report.
[Rules 62-4.130, 62-204.800, 62-210.700(6), F.A.C.; 40 CFR 60.7 and Subpart KKKK]

The specific conditions in this subsection apply to the following emissions units:

ID	Emission Unit Description
044	Four Small Gaseous-fueled Process Heaters (3 MMBtu/hr)

This emissions unit consists of four small gaseous-fueled process heaters (3 MMBtu/hr) that serve Unit 4. The four process heaters are used for the purpose of heating the natural gas supply. These units commenced operation in November/December 2008.

{Permitting Note: These emissions units were reviewed under the rules for the Prevention of Significant Deterioration (PSD), Rule 62-212.400, F.A.C. Best Available Control Technology (BACT) determinations were made for carbon monoxide (CO) and volatile organic compounds (VOC) in accordance with Rule 62-210.200 (Definitions). These units are also regulated under NSPS, Subpart Dc.}

Essential Potential to Emit (PTE) Parameters

E.1. Permitted Capacity. The maximum allowable heat input rate is as follows:

Unit No.	MMBtu/hr Heat Input	Fuel Type
044	3 MMBtu/hr each	Natural Gas

[Rules 62-4.160(2), 62-204.800 & 62-210.200(PTE), F.A.C.; and, 1030011-010-AC (PSD-FL-381)]

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

E.3. Methods of Operation – Fuels. The only fuel allowed to be burned in these units is natural gas. [1030011-010-AC (PSD-FL-381)]

E.4. Hours of Operation. The gas-fueled process heaters are allowed to operate continuously (8,760 hours per year). [1030011-010-AC (PSD-FL-381)]

Emission Limitations and Standards

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

Unless otherwise specified, the averaging times for Specific Conditions **E.5 and E.6. ~~& E.7.~~** are based on the specified averaging time of the applicable test method.

E.5. Visible Emissions. Visible emissions from these units shall not exceed 10% opacity. [1030011-010-AC (PSD-FL-381)

E.6. Carbon Monoxide Emissions. Carbon monoxide emissions from these units shall not exceed 0.08 lb/MMBtu. [1030011-010-AC (PSD-FL-381)]

E.7. Fuel Sulfur Limit. The sulfur content of the natural gas combusted in these units shall not exceed 2 grains of sulfur per 100 standard cubic feet. [1030011-010-AC (PSD-FL-381)]

Excess Emissions

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

E.8. Excess Emissions Allowed. 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 PCDEM for longer duration. [Rule 62-210.700(1), F.A.C.]

E.9. Excess Emissions Prohibited. 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.]

Test Methods and Procedures

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

E.10. Test Methods. Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources
10	Determination of Carbon Monoxide Emissions from Stationary Sources {Note: The method shall be based on a continuous sampling train.}

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [62-297.401, F.A.C. and 1030011-010-AC (PSD-FL-381)]

E.11. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

E.12. Annual Compliance Tests Not Required. ~~During each federal fiscal year (October 1st to September 30th), each emissions unit shall be tested~~ Regular testing to demonstrate compliance with the emissions standards for visible emissions and carbon monoxide is not required; however, the provisions for special compliance testing upon request still apply (see Specific Condition TR7b.). [Rule 62-297.310(7), F.A.C. and 1030011-010-AC (PSD-FL-381)]

Recordkeeping and Reporting Requirements

E.13. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Notice of Malfunctions	Quarterly, If Requested.	~~E.16~~. E.15
Fuel Usage	Annually	~~E.17~~. E.16

E.14. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

E.15. Malfunction Reporting. In the case of excess emissions resulting from malfunctions, the owner or operator shall notify PCDEM, 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 PCDEM. [Rule 62-210.700(6), F.A.C.]

E.16. Fuel Usage. The permittee shall maintain records of the sulfur content and the amount of natural gas used in the heaters. These records shall be submitted to the Compliance Authority on an annual basis or upon request. [Rule 62-4.070(3) F.A.C. and 1030011-010-AC (PSD-FL-381)]

Subsection F. Storage Tanks (E.U. 045)

This subsection of the permit addresses the following emissions unit:

ID	Emission Unit Description
045	Two Nominal 3.5 million gallon distillate fuel oil storage tanks

This emissions unit consists of two 3.5 million gallon fuel oil tanks that serve Units 4 and 5. This unit commenced operation in November/December 2008.

{Permitting Note: This emissions unit was reviewed under the rules for the Prevention of Significant Deterioration (PSD), Rule 62-212.400, F.A.C. This unit is regulated under Rule 62-04.070 (3), and Rule 62-212.400, F.A.C.}

Applicable Standards and Regulations

F.1. NSPS Subpart Kb Applicability. The distillate fuel oil tanks are not subject to Subpart Kb, which applies to any storage tank with a capacity greater than or equal to 10,300 gallons (40 cubic meters) that is used to store volatile organic liquids for which construction, reconstruction, or modification is commenced after July 23, 1984. Tanks with a capacity greater than or equal to 40,000 gallons (151 cubic meters) storing a liquid with a maximum true vapor pressure less than 3.5 kPa are exempt from the General Provisions (40 CFR 60, Subpart A) and from the provisions of NSPS Subpart Kb. [1030011-010-AC (PSD-FL-381)]

Equipment, Capacities and Usage

F.2. Equipment. The permittee is authorized to operate and maintain two 3.5 million gallon distillate fuel oil storage tank designed to provide low sulfur fuel oil to the gas turbines. [1030011-010-AC (PSD-FL-381)]

F.3. Hours of Operation. The hours of operation are not restricted (8,760 hours per year). [1030011-010-AC (PSD-FL-381)]

Notification, Reporting and Records

F.4. Oil Tank Records. The permittee shall keep readily accessible records showing the dimension of each storage vessel and an analysis showing the capacity of each storage tank. Records shall be retained for the life of the facility. The permittee shall also keep records sufficient to determine the annual throughput of distillate fuel oil for each storage tank for use in the Annual Operating Report. [1030011-010-AC (PSD-FL-381)]

F.5. Fuel Oil Records. The permittee shall keep readily accessible records showing the maximum true vapor pressure of the stored liquid. The maximum true vapor pressure shall be less than 3.5 kPa. Compliance with this condition may be demonstrated by using the information from the respective Material Safety Data Sheets (MSDS) for the low sulfur fuel oil stored in the tanks. [1030011-010-AC (PSD-FL-381)]

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

ID	Emission Unit Description
046	One nominal 300-hp emergency diesel fire pump engine and 500 gallon fuel oil storage tank.

This emissions unit consists of one nominal 300-hp emergency diesel fire pump engine and 500 gallon fuel oil storage tank that serves Unit 4 and 5. This unit commenced operation in November/ December 2008.

{Permitting Note: This emissions unit was reviewed under the rules for the Prevention of Significant Deterioration (PSD), Rule 62-212.400, F.A.C. Best Available Control Technology (BACT) determinations were made for carbon monoxide (CO) and volatile organic compounds (VOC) in accordance with Rule 62-210.200 (Definitions). These units are also regulated under NSPS, Subpart IIII.}

Applicable Standards and Regulations

G.1. NSPS Subpart IIII Applicability. This fire pump engine is an Emergency Stationary Compression Ignition Internal Combustion Engine (Stationary ICE) and is subject to 40 CFR 60, Subpart IIII. It shall comply with 40 CFR 60, Subpart IIII only to the extent that the regulations apply to the emissions unit and its operations (e.g. fire pumps, horsepower, model year selected). [40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines and 1030011-010-AC (PSD-FL-381)].

Essential Potential to Emit (PTE) Parameters

G.2. Equipment. The permittee is authorized to operate and maintain one diesel engine driven fire pump (approximately 300 hp) and an associated 500 gallon fuel oil storage tank. [1030011-010-AC (PSD-FL-381)]

G.3. Methods of Operation - Fuel. This unit shall fire low sulfur fuel oil (or superior fuel) i.e., no more than 0.05% sulfur by weight. [Rules 62-210.200(PTE) & 62-212.400 (BACT), F.A.C.; and, 1030011-010-AC (PSD-FL-381)]

G.4. Hours of Operation. The fire pump may operate in response to emergency conditions and 40 non-emergency hours per year for maintenance testing. [1030011-010-AC (PSD-FL-381)]

Emission Limitations and Standards

G.5. Fuel Oil Sulfur Limit. The fuel oil fired in this unit shall contain no more than 0.05% sulfur by weight. [Rules 62-210.200(PTE) & 62-212.400 (BACT), F.A.C.; and, 1030011-010-AC (PSD-FL-381)]

G.6. Fire Pump Engine Emissions Limits. The following limits apply based on the size category of the fire pump located at the facility.

Size (hp)	CO (BACT, IIII)	NMHC*+NO_X (BACT for VOC, IIII)	PM
175 and greater	2.6 gm/bhp-hr	7.8 gm/bhp-hr	0.40 gm/bhp-hr

Note 1. Non-Methane Hydrocarbons (NMHC) are a surrogate for VOC.

[1030011-010-AC (PSD-FL-381)]

Test Methods and Procedures

G.7. Fire Pump Engine Certification. Manufacturer certification shall be provided to the Department in lieu of actual testing. [40 CFR 60.4211 and 1030011-010-AC (PSD-FL-381)]

G.8. Fuel Oil Sampling. Compliance with the distillate fuel oil sulfur limit shall be demonstrated by taking a sample, analyzing the sample for fuel sulfur, and reporting the results to each Compliance Authority. Sampling the fuel oil sulfur content shall be conducted in accordance with ASTM D4057-88, Standard Practice for Manual Sampling of Petroleum and Petroleum Products, and one of the following test methods for sulfur in petroleum products: ASTM methods D5453-00, D129-91, D1552-90, D2622-94, or D4294-90. More recent versions of these methods or other Department approved methods may be used. For each subsequent fuel delivery, the permittee shall maintain a permanent file of the certified fuel sulfur analysis from the fuel vendor. At the request of a Compliance Authority, the permittee shall perform additional sampling and analysis for the fuel sulfur content. [1030011-010-AC (PSD-FL-381)]

Operated by: Progress Energy Florida – Bartow Plant
ORIS code: 634

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

E.U. ID No.	Brief Description
-001	No. 1 Unit, Fossil Fuel Fired Steam Generator with Electrostatic Precipitator (Retired 6/1/09)
-002	No. 2 Unit, Fossil Fuel Fired Steam Generator (Retired 6/1/09)
-003	No. 3 Unit, Fossil Fuel Fired Steam Generator (Retired 6/1/09)
-038	Gas turbine with supplementary-fired heat recovery steam generator (EPA ID # ~~TPCT~~ 4A)
-039	Gas turbine with supplementary-fired heat recovery steam generator (EPA ID # ~~TPCT~~ 4B)
-040	Gas turbine with supplementary-fired heat recovery steam generator (EPA ID # ~~TPCT~~ 4C)
-041	Gas turbine with supplementary-fired heat recovery steam generator (EPA ID # ~~TPCT~~ 4D)

A.1. The Acid Rain Part application submitted for this facility, as approved by the Department, is a part of this permit. The owners and operators of these 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)(d), dated 06/05/09.
b. DEP Form No. 62-210.900(1)(a), dated 04/29/09.
[Chapter 62-213, F.A.C. and Rule 62-214.320, F.A.C.]

A.2. Sulfur dioxide (SO_2) Emission Allowances. SO_2 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 62-213.400(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)1., 2. & 3., F.A.C.]

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

Acid Rain, CAIR, and Hg Budget Retired Unit Exemption

For more information, see instructions and refer to 40 CFR 72.8, 96.105, 96.205, 96.305, and 60.4105; and Rules 62-214.340(2), 62-296.470, and 62-296.480, F.A.C.

This submission is: [X] **New** [ ] **Revised**

STEP 1

Identify the unit by plant name, State, ORIS code and unit ID#.

P.L. Bartow Power Plant	FL	0634	1
Plant Name	State	ORIS/Plant Code	Unit ID#

Applicable Program(s): ~ Acid Rain ~ CAIR NO_x Annual ~ CAIR SO_2 ~ CAIR NO_x Ozone Season ~ Mercury (Hg) Budget Trading

STEP 2
Identify the date on which the unit was (or will be) permanently retired.

06 / 01 / 2009

STEP 3
If an acid rain affected unit, identify the first full calendar year in which the unit meets (or will meet) the requirements of 40 CFR 72.8(d).

January 1, 2010

STEP 4
Read the special provisions.

Acid Rain Special Provisions

(1) A unit exempt under Rule 62-214.340(2), F.A.C., shall not emit any sulfur dioxide and nitrogen oxides starting on the date that the exemption takes effect. The owners and operators of the unit will be allocated allowances in accordance with 40 CFR Part 73, Subpart B. If the unit is a Phase I unit, for each calendar year in Phase I, the designated representative of the unit shall submit a Phase I permit application in accordance with 40 CFR Part 72, Subparts C and D, and an annual certification report in accordance with 40 CFR 72.90 through 72.92 and is subject to 40 CFR 72.95 and 72.96.
(2) A unit exempt under Rule 62-214.340(2), F.A.C., shall not resume operation unless the designated representative of the source that includes the unit submits a complete Acid Rain Part application under Rule 62-214.320, F.A.C., for the unit not less than 24 months prior to the date on which the unit is first to resume operation.
(3) The owners and operators and, to the extent applicable, the designated representative of a unit exempt under Rule 62-214.340(2), F.A.C., shall comply with the requirements of Chapter 62-214, F.A.C., and the Acid Rain Program concerning all periods for which the exemption is not in effect, even if such requirements arise, or must be complied with, after the exemption takes effect.
(4) For any period for which a unit is exempt under Rule 62-214.340(2), F.A.C., the unit is not an Acid Rain unit and is not eligible to be an opt-in source under 40 CFR Part 74. As a non-Acid Rain Unit, the unit shall continue to be subject to any other applicable requirements under Chapter 62-213, F.A.C.
(5) For a period of 5 years from the date the records are created, the owners and operators of a unit exempt under Rule 62-214.340(2), F.A.C., shall retain at the source that includes the unit records demonstrating that the unit is permanently retired. The 5-year period for keeping records may be extended for cause, at any time prior to the end of the period, in writing by the EPA or the DEP. The owners and operators bear the burden of proof that the unit is permanently retired.
(6) On the earlier of the following dates, a unit exempt under Rule 62-214.340(2), F.A.C., shall lose its exemption and become an Acid Rain Unit: (i) the date on which the designated representative submits an Acid Rain Part application under paragraph (2); or (ii) the date on which the designated representative is required under paragraph (2) to submit an Acid Rain Part application. For the purpose of applying monitoring requirements under 40 CFR Part 75, a unit that loses its exemption under Rule 62-214.340(2), F.A.C., shall be treated as a new unit that commenced commercial operation on the first date on which the unit resumes operation.

P.L. Bartow Power Plant
Plant Name (from STEP 1)

STEP 4
(continued)

CAIR Special Provisions

(1) A unit exempt under 40 CFR 96.105(a), 96.205(a), or 96.305(a), shall not emit any sulfur dioxide or nitrogen oxides starting on the date that the exemption takes effect. The DEP will allocate CAIR NO_x allowances in accordance with Rule 62-296.470, F.A.C.
(2) For a period of 5 years from the date the records are created, the owners and operators of a unit exempt under Rule 62-296.470, F.A.C., shall retain at the source that includes the unit, records demonstrating that the unit is permanently retired. The 5-year period for keeping records may be extended for cause, at any time prior to the end of the period, in writing by the EPA or the DEP. The owners and operators bear the burden of proof that the unit is permanently retired.
(3) The owners and operators and, to the extent applicable, the CAIR designated representative of a unit exempt under 40 CFR 96.105(a), 96.205(a), or 96.305(a), shall comply with the applicable requirements of the CAIR NO_x Annual Trading Program, the CAIR SO_2 Trading Program, and the CAIR NO_x Ozone Season Trading Program concerning all periods for which the exemption is not in effect, even if such requirements arise, or must be complied with, after the exemption takes effect.
(4) A unit exempt under 40 CFR 96.105(a), 96.205(a), or 96.305(a), and located at a source that is required, or but for this exemption would be required, to have a title V operating permit shall not resume operation unless the CAIR designated representative of the source submits a complete CAIR Part application under Rule 62-213.420, F.A.C., for the unit before the date on which the unit resumes operation.
(5) On the earlier of the following dates, a unit exempt under 40 CFR 96.105(a), 96.205(a), or 96.305(a) shall lose its exemption:
(i) the date on which the CAIR designated representative submits a CAIR Part application under Special Provision (4) above;
(ii) the date on which the CAIR designated representative is required under Special Provision (4) above to submit an CAIR Part application for the unit; or
(iii) the date on which the unit resumes operation, if the CAIR designated representative is not required to submit a CAIR Part application for the unit.
(6) For the purpose of applying monitoring, reporting and recordkeeping requirements under 40 CFR Part 96, Subparts HH, HHH, and/or HHHH, a unit that loses its exemption under 40 CFR 96.105(a), 96.205(a), or 96.305(a), shall be treated as a unit that commences commercial operation on the first date on which the unit resumes operation.

Mercury (Hg) Budget Trading Special Provisions

(1) A unit exempt under 40 CFR 60.4105(a) shall not emit any mercury starting on the date that the exemption takes effect.
(2) The DEP will allocate Hg allowances under Rule 62-296.480, F.A.C.
(3) For a period of 5 years from the date the records are created, the owners and operators of a unit exempt under 40 CFR 60.4105(a) shall retain at the source that includes the unit, records demonstrating that the unit is permanently retired. The 5-year period for keeping records may be extended for cause, at any before the end of the period, in writing by the EPA or the DEP. The owners and operators bear the burden of proof that the unit is permanently retired.
(4) The owners and operators and, to the extent applicable, the Hg designated representative of a unit exempt under 40 CFR 60.4105(a) shall comply with the requirements of the Hg Budget Trading Program concerning all periods for which the exemption is not in effect, even if such requirements arise, or must be complied with, after the exemption takes effect.
(5) A unit exempt under 40 CFR 60.4105(a) and located at a source that is required, or but for this exemption would be required, to have a title V operating permit shall not resume operation unless the Hg designated representative of the source submits a complete Hg Budget Part application under 40 CFR 60.4122 and Rule 62-213.420, F.A.C., for the unit before the date on which the unit resumes operation.
(6) On the earlier of the following dates, a unit exempt under 40 CFR 60.4105(a) shall lose its exemption:
(i) the date on which the Hg designated representative submits a Hg Budget Part application for the unit under Special Provision (5);
(ii) the date on which the Hg designated representative is required under Special Provision (5) to submit a Hg Budget Part application for the unit; or
(iii) the date on which the unit resumes operation, if the Hg designated representative is not required to submit a Hg Budget Part application for the unit.
(7) For the purpose of applying monitoring, reporting and recordkeeping requirements under 40 CFR 60.4170 through 60.4176, a unit that loses its exemption under 40 CFR 60.4105(a) shall be treated as a unit that commences operation and commercial operation on the first date on which the unit resumes operation.

P.L. Bartow Power Plant Plant Name (from STEP 1)

STEP 5
Make Statement of Compliance.

Statement of Compliance

I state that the unit identified above in STEP 1 was (or will be) permanently retired on the date identified in STEP 2 and will comply with the Special Provisions listed in STEP 4.

STEP 6

Read the certification and sign and date.

Certification (for designated representatives or alternate designated representatives only)

I am authorized to make this submission on behalf of the owners and operators of the affected source and affected unit 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: Patricia Q. West	Title: Manager, Environmental Services, Energy Supply Florida
Owner Company Name: Florida Power Corporation d/b/a/ Progress Energy Florida, Inc.	
Phone: (727) 820-5739	Email: Patricia.West@pgnmail.com
Signature: Patricia Q West	Date: 6/5/09

DEP Form No. 62-210.900(1)(d) - Form
Effective: 3/16/08

3

Acid Rain, CAIR, and Hg Budget Retired Unit Exemption

For more information, see instructions and refer to 40 CFR 72.8, 96.105, 96.205, 96.305, and 60.4105; and Rules 62-214.340(2), 62-296.470, and 62-296.480, F.A.C.

This submission is: [X] **New** [ ] **Revised**

STEP 1

Identify the unit by plant name, State, ORIS code and unit ID#.

P.L. Bartow Power Plant	FL	0634	2
Plant Name	State	ORIS/Plant Code	Unit ID#

Applicable Program(s): ~ Acid Rain ~ CAIR NO_x Annual ~ CAIR SO_2 ~ CAIR NO_x Ozone Season ~ Mercury (Hg) Budget Trading

STEP 2
Identify the date on which the unit was (or will be) permanently retired.

06 / 01 / 2009

STEP 3
If an acid rain affected unit, identify the first full calendar year in which the unit meets (or will meet) the requirements of 40 CFR 72.8(d).

January 1, 2010

STEP 4
Read the special provisions.

Acid Rain Special Provisions

(1) A unit exempt under Rule 62-214.340(2), F.A.C., shall not emit any sulfur dioxide and nitrogen oxides starting on the date that the exemption takes effect. The owners and operators of the unit will be allocated allowances in accordance with 40 CFR Part 73, Subpart B. If the unit is a Phase I unit, for each calendar year in Phase I, the designated representative of the unit shall submit a Phase I permit application in accordance with 40 CFR Part 72, Subparts C and D, and an annual certification report in accordance with 40 CFR 72.90 through 72.92 and is subject to 40 CFR 72.95 and 72.96.
(2) A unit exempt under Rule 62-214.340(2), F.A.C., shall not resume operation unless the designated representative of the source that includes the unit submits a complete Acid Rain Part application under Rule 62-214.320, F.A.C., for the unit not less than 24 months prior to the date on which the unit is first to resume operation.
(3) The owners and operators and, to the extent applicable, the designated representative of a unit exempt under Rule 62-214.340(2), F.A.C., shall comply with the requirements of Chapter 62-214, F.A.C., and the Acid Rain Program concerning all periods for which the exemption is not in effect, even if such requirements arise, or must be complied with, after the exemption takes effect.
(4) For any period for which a unit is exempt under Rule 62-214.340(2), F.A.C., the unit is not an Acid Rain unit and is not eligible to be an opt-in source under 40 CFR Part 74. As a non-Acid Rain Unit, the unit shall continue to be subject to any other applicable requirements under Chapter 62-213, F.A.C.
(5) For a period of 5 years from the date the records are created, the owners and operators of a unit exempt under Rule 62-214.340(2), F.A.C., shall retain at the source that includes the unit records demonstrating that the unit is permanently retired. The 5-year period for keeping records may be extended for cause, at any time prior to the end of the period, in writing by the EPA or the DEP. The owners and operators bear the burden of proof that the unit is permanently retired.
(6) On the earlier of the following dates, a unit exempt under Rule 62-214.340(2), F.A.C., shall lose its exemption and become an Acid Rain Unit: (i) the date on which the designated representative submits an Acid Rain Part application under paragraph (2); or (ii) the date on which the designated representative is required under paragraph (2) to submit an Acid Rain Part application. For the purpose of applying monitoring requirements under 40 CFR Part 75, a unit that loses its exemption under Rule 62-214.340(2), F.A.C., shall be treated as a new unit that commenced commercial operation on the first date on which the unit resumes operation.

P.L. Bartow Power Plant
Plant Name (from STEP 1)

STEP 4
(continued)

CAIR Special Provisions

(1) A unit exempt under 40 CFR 96.105(a), 96.205(a), or 96.305(a), shall not emit any sulfur dioxide or nitrogen oxides starting on the date that the exemption takes effect. The DEP will allocate CAIR NO_X allowances in accordance with Rule 62-296.470, F.A.C.
(2) For a period of 5 years from the date the records are created, the owners and operators of a unit exempt under Rule 62-296.470, F.A.C., shall retain at the source that includes the unit, records demonstrating that the unit is permanently retired. The 5-year period for keeping records may be extended for cause, at any time prior to the end of the period, in writing by the EPA or the DEP. The owners and operators bear the burden of proof that the unit is permanently retired.
(3) The owners and operators and, to the extent applicable, the CAIR designated representative of a unit exempt under 40 CFR 96.105(a), 96.205(a), or 96.305(a), shall comply with the applicable requirements of the CAIR NO_X Annual Trading Program, the CAIR SO_2 Trading Program, and the CAIR NO_X Ozone Season Trading Program concerning all periods for which the exemption is not in effect, even if such requirements arise, or must be complied with, after the exemption takes effect.
(4) A unit exempt under 40 CFR 96.105(a), 96.205(a), or 96.305(a), and located at a source that is required, or but for this exemption would be required, to have a title V operating permit shall not resume operation unless the CAIR designated representative of the source submits a complete CAIR Part application under Rule 62-213.420, F.A.C., for the unit before the date on which the unit resumes operation.
(5) On the earlier of the following dates, a unit exempt under 40 CFR 96.105(a), 96.205(a), or 96.305(a) shall lose its exemption:
(i) the date on which the CAIR designated representative submits a CAIR Part application under Special Provision (4) above;
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(iii) the date on which the unit resumes operation, if the CAIR designated representative is not required to submit a CAIR Part application for the unit.
(6) For the purpose of applying monitoring, reporting and recordkeeping requirements under 40 CFR Part 96, Subparts HH, HHH, and/or HHHH, a unit that loses its exemption under 40 CFR 96.105(a), 96.205(a), or 96.305(a), shall be treated as a unit that commences commercial operation on the first date on which the unit resumes operation.

Mercury (Hg) Budget Trading Special Provisions

(1) A unit exempt under 40 CFR 60.4105(a) shall not emit any mercury starting on the date that the exemption takes effect.
(2) The DEP will allocate Hg allowances under Rule 62-296.480, F.A.C.
(3) For a period of 5 years from the date the records are created, the owners and operators of a unit exempt under 40 CFR 60.4105(a) shall retain at the source that includes the unit, records demonstrating that the unit is permanently retired. The 5-year period for keeping records may be extended for cause, at any before the end of the period, in writing by the EPA or the DEP. The owners and operators bear the burden of proof that the unit is permanently retired.
(4) The owners and operators and, to the extent applicable, the Hg designated representative of a unit exempt under 40 CFR 60.4105(a) shall comply with the requirements of the Hg Budget Trading Program concerning all periods for which the exemption is not in effect, even if such requirements arise, or must be complied with, after the exemption takes effect.
(5) A unit exempt under 40 CFR 60.4105(a) and located at a source that is required, or but for this exemption would be required, to have a title V operating permit shall not resume operation unless the Hg designated representative of the source submits a complete Hg Budget Part application under 40 CFR 60.4122 and Rule 62-213.420, F.A.C., for the unit before the date on which the unit resumes operation.
(6) On the earlier of the following dates, a unit exempt under 40 CFR 60.4105(a) shall lose its exemption:
(i) the date on which the Hg designated representative submits a Hg Budget Part application for the unit under Special Provision (5);
(ii) the date on which the Hg designated representative is required under Special Provision (5) to submit a Hg Budget Part application for the unit; or
(iii) the date on which the unit resumes operation, if the Hg designated representative is not required to submit a Hg Budget Part application for the unit.
(7) For the purpose of applying monitoring, reporting and recordkeeping requirements under 40 CFR 60.4170 through 60.4176, a unit that loses its exemption under 40 CFR 60.4105(a) shall be treated as a unit that commences operation and commercial operation on the first date on which the unit resumes operation.

P.L. Bartow Power Plant Plant Name (from STEP 1)

STEP 5
Make Statement of Compliance.

Statement of Compliance
I state that the unit identified above in STEP 1 was (or will be) permanently retired on the date identified in STEP 2 and will comply with the Special Provisions listed in STEP 4.

STEP 6

Read the certification and sign and date.

Certification (for designated representatives or alternate designated representatives only)
I am authorized to make this submission on behalf of the owners and operators of the affected source and affected unit 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: Patricia Q. West	Title: Manager, Environmental Services, Energy Supply Florida
Owner Company Name: Florida Power Corporation d/b/a/ Progress Energy Florida, Inc.	
Phone: (727) 820-5739	Email: Patricia.West@pgnmail.com
Signature: Patricia Q. West	Date: 6/5/09

DEP Form No. 62-210.900(1)(d) - Form
Effective: 3/16/08

3

Acid Rain, CAIR, and Hg Budget Retired Unit Exemption

For more information, see instructions and refer to 40 CFR 72.8, 96.105, 96.205, 96.305, and 60.4105; and Rules 62-214.340(2), 62-296.470, and 62-296.480, F.A.C.

This submission is: [X] **New** [ ] **Revised**

STEP 1

Identify the unit by plant name, State, ORIS code and unit ID#.

P.L. Bartow Power Plant	FL	0634	3
Plant Name	State	ORIS/Plant Code	Unit ID#

Applicable Program(s): ~ Acid Rain ~ CAIR NO_X Annual ~ CAIR SO_2 ~ CAIR NO_X Ozone Season ~ Mercury (Hg) Budget Trading

STEP 2
Identify the date on which the unit was (or will be) permanently retired.

06 / 01 / 2009

STEP 3
If an acid rain affected unit, identify the first full calendar year in which the unit meets (or will meet) the requirements of 40 CFR 72.8(d).

January 1, 2010

STEP 4
Read the special provisions.

Acid Rain Special Provisions

(1) A unit exempt under Rule 62-214.340(2), F.A.C., shall not emit any sulfur dioxide and nitrogen oxides starting on the date that the exemption takes effect. The owners and operators of the unit will be allocated allowances in accordance with 40 CFR Part 73, Subpart B. If the unit is a Phase I unit, for each calendar year in Phase I, the designated representative of the unit shall submit a Phase I permit application in accordance with 40 CFR Part 72, Subparts C and D, and an annual certification report in accordance with 40 CFR 72.90 through 72.92 and is subject to 40 CFR 72.95 and 72.96.
(2) A unit exempt under Rule 62-214.340(2), F.A.C., shall not resume operation unless the designated representative of the source that includes the unit submits a complete Acid Rain Part application under Rule 62-214.320, F.A.C., for the unit not less than 24 months prior to the date on which the unit is first to resume operation.
(3) The owners and operators and, to the extent applicable, the designated representative of a unit exempt under Rule 62-214.340(2), F.A.C., shall comply with the requirements of Chapter 62-214, F.A.C., and the Acid Rain Program concerning all periods for which the exemption is not in effect, even if such requirements arise, or must be complied with, after the exemption takes effect.
(4) For any period for which a unit is exempt under Rule 62-214.340(2), F.A.C., the unit is not an Acid Rain unit and is not eligible to be an opt-in source under 40 CFR Part 74. As a non-Acid Rain Unit, the unit shall continue to be subject to any other applicable requirements under Chapter 62-213, F.A.C.
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(6) On the earlier of the following dates, a unit exempt under Rule 62-214.340(2), F.A.C., shall lose its exemption and become an Acid Rain Unit: (i) the date on which the designated representative submits an Acid Rain Part application under paragraph (2); or (ii) the date on which the designated representative is required under paragraph (2) to submit an Acid Rain Part application. For the purpose of applying monitoring requirements under 40 CFR Part 75, a unit that loses its exemption under Rule 62-214.340(2), F.A.C., shall be treated as a new unit that commenced commercial operation on the first date on which the unit resumes operation.

P.L. Bartow Power Plant
Plant Name (from STEP 1)

STEP 4
(continued)

CAIR Special Provisions

(1) A unit exempt under 40 CFR 96.105(a), 96.205(a), or 96.305(a), shall not emit any sulfur dioxide or nitrogen oxides starting on the date that the exemption takes effect. The DEP will allocate CAIR NO_x allowances in accordance with Rule 62-296.470, F.A.C.
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(3) The owners and operators and, to the extent applicable, the CAIR designated representative of a unit exempt under 40 CFR 96.105(a), 96.205(a), or 96.305(a), shall comply with the applicable requirements of the CAIR NO_x Annual Trading Program, the CAIR SO_2 Trading Program, and the CAIR NO_x Ozone Season Trading Program concerning all periods for which the exemption is not in effect, even if such requirements arise, or must be complied with, after the exemption takes effect.
(4) A unit exempt under 40 CFR 96.105(a), 96.205(a), or 96.305(a), and located at a source that is required, or but for this exemption would be required, to have a title V operating permit shall not resume operation unless the CAIR designated representative of the source submits a complete CAIR Part application under Rule 62-213.420, F.A.C., for the unit before the date on which the unit resumes operation.
(5) On the earlier of the following dates, a unit exempt under 40 CFR 96.105(a), 96.205(a), or 96.305(a) shall lose its exemption:
(i) the date on which the CAIR designated representative submits a CAIR Part application under Special Provision (4) above;
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Mercury (Hg) Budget Trading Special Provisions

(1) A unit exempt under 40 CFR 60.4105(a) shall not emit any mercury starting on the date that the exemption takes effect.
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(6) On the earlier of the following dates, a unit exempt under 40 CFR 60.4105(a) shall lose its exemption:
(i) the date on which the Hg designated representative submits a Hg Budget Part application for the unit under Special Provision (5);
(ii) the date on which the Hg designated representative is required under Special Provision (5) to submit a Hg Budget Part application for the unit; or
(iii) the date on which the unit resumes operation, if the Hg designated representative is not required to submit a Hg Budget Part application for the unit.
(7) For the purpose of applying monitoring, reporting and recordkeeping requirements under 40 CFR 60.4170 through 60.4176, a unit that loses its exemption under 40 CFR 60.4105(a) shall be treated as a unit that commences operation and commercial operation on the first date on which the unit resumes operation.

P.L. Bartow Power Plant Plant Name (from STEP 1)

STEP 5
Make Statement of Compliance.

Statement of Compliance

I state that the unit identified above in STEP 1 was (or will be) permanently retired on the date identified in STEP 2 and *will* comply with the Special Provisions listed in STEP 4.

STEP 6

Read the certification and sign and date.

Certification (for designated representatives or alternate designated representatives only)

I am authorized to make this submission on behalf of the owners and operators of the affected source and affected unit 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: Patricia Q. West	Title: Manager, Environmental Services, Energy Supply Florida
Owner Company Name: Florida Power Corporation d/b/a/ Progress Energy Florida, Inc.	
Phone: (727) 820-5739	Email: Patricia.West@pgnmail.com
Signature: Patricia Q. West	Date: 6/5/09

DEP Form No. 62-210.900(1)(d) - Form
Effective: 3/16/08

3

Acid Rain Part- Page 1

Acid Rain Part Application

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

This submission is: Renewal

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

Plant Name P. L. BARTOW POWER PLANT State FL ORIS Code 634

STEP 2

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

a Unit ID#	b Unit will hold allowances in accordance with 40 CFR 72.9©(1)	c New Units Commence Operation Date	d New Units Monitor Certification Deadline
1	Yes	No	
2	Yes	No	
3	Yes	No	
4A	Yes	12/05/2008	
4B	Yes	11/05/2008	
4C	Yes	11/19/2008	
4D	Yes	12/20/2008	

DEP Form No. 62-210.900(1)(a) - Form
Effective: 06/16/03

P.L. BARTOW POWER PLANT

Plant Name (from Step 1)

STEP 3
Read the standard requirements

Acid Rain Part Requirements

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

Monitoring Requirements

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

Sulfur Dioxide Requirements

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

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

Excess Emissions Requirements

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

Recordkeeping and Reporting Requirements.

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

P.L. BARTOW POWER PLANT

Plant Name (from Step 1)

STEP 3, Cont'd.

Recordkeeping and Reporting Requirements (cont)

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

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

Liability.

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

Effect on Other Authorities.

No provision of the Acid Rain Program, an Acid Rain part application, an Acid Rain part, or an exemption under 40 CFR 72.7or 72.8 shall be construed as:
(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an Acid Rain source or Acid Rain unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
(2) Limiting the number of allowances a unit can hold; *provided*, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;
(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4

Read the certification statement, sign, and date

Certification

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

Name	Patricia Q. West	
Signature	Patricia Q. West	Date 4/29/09

DEP Form No. 62-210.900(1)(a) - Form
Effective: 06/16/03

Clean Air Interstate Rule (CAIR).

Operated by: Progress Energy
Plant Name: P.L. Bartow Power Plant
ORIS Code: 0634

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

E.U. ID No.	EPA Unit ID#	Brief Description
-001	01	No. 1 Unit, Fossil Fuel Fired Steam Generator with ESP (Retired 6/1/09)
-002	02	No. 2 Unit, Fossil Fuel Fired Steam Generator (Retired 6/1/09)
-003	03	No. 3 Unit, Fossil Fuel Fired Steam Generator (Retired 6/1/09)
-005	P1	Gas Turbine Peaking Unit #P-1
-006	P2	Gas Turbine Peaking Unit #P-2
-007	P3	Gas Turbine Peaking Unit #P-3
-008	P4	Gas Turbine Peaking Unit #P-4
-038	4A	Unit 4A – One 215 MW (ISO) Combustion Turbine with Duct-fired Heat Recovery Steam Generator
-039	4B	Unit 4B – One 215 MW (ISO) Combustion Turbine with Duct-fired Heat Recovery Steam Generator
-040	4C	Unit 4C – One 215 MW (ISO) Combustion Turbine with Duct-fired Heat Recovery Steam Generator
-041	4D	Unit 4D – One 215 MW (ISO) Combustion Turbine with Duct-fired Heat Recovery Steam Generator

1. Clean Air Interstate Rule Application. The Clean Air Interstate Rule Part Form submitted for this facility is a part of this permit. The owners and operators of these CAIR units as identified in this form must comply with the standard requirements and special provisions set forth in the CAIR Part Form (DEP Form No. 62-210.900(1)(b) - Form, Effective: 3/16/08), which is attached at the end of this section. [Chapter 62-213, F.A.C. and Rule 62-210.200, F.A.C.]

Clean Air Interstate Rule (CAIR) Part

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

This submission is: ☐ New ☑ Revised ☑ Renewal

STEP 1

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

Plant Name: P.L. BARTOW POWER PLANT	State: Florida	ORIS or EIA Plant Code: 0634

STEP 2

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

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

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

a	b	c	d	e	f
Unit ID#	Unit will hold nitrogen oxides (NO_X) allowances in accordance with 40 CFR 96.106(c)(1)	Unit will hold sulfur dioxide (SO_2) allowances in accordance with 40 CFR 96.206(c)(1)	Unit will hold NO_X Ozone Season allowances in accordance with 40 CFR 96.306(c)(1)	New Units Expected Commence Commercial Operation Date	New Units Expected Monitor Certification Deadline
01	X	X	X	No	
02	X	X	X	No	
03	X	X	X	No	
P1	X	X	X	No	
P2	X	X	X	No	
P3	X	X	X	No	
P4	X	X	X	No	
4A	X	X	X	12/05/2008	
4B	X	X	X	11/05/2008	
4C	X	X	X	11/19/2008	
4D	X	X	X	12/20/2008	

P.L. BARTOW POWER PLANT
Plant Name (from STEP 1)

STEP 3

Read the standard requirements.

CAIR NO_X ANNUAL TRADING PROGRAM

CAIR Part Requirements.

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

Monitoring, Reporting, and Recordkeeping Requirements.

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

NO_X Emission Requirements.

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

Excess Emissions Requirements.

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

Recordkeeping and Reporting Requirements.

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

P.L. BARTOW POWER PLANT
Plant Name (from STEP 1)

STEP 3, Continued

Liability.

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

Effect on Other Authorities.

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

CAIR SO_2 TRADING PROGRAM

CAIR Part Requirements.

(1) The CAIR designated representative of each CAIR SO_2 source and each CAIR SO_2 unit at the source shall:
(i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.222 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and
(ii) [Reserved];
(2) The owners and operators of each CAIR SO_2 source and each CAIR SO_2 unit at the source shall have a CAIR Part included in the Title V operating permit issued by the DEP under 40 CFR Part 96, Subpart CCC, for the source and operate the source and each CAIR unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

(1) The owners and operators, and the CAIR designated representative, of each CAIR SO_2 source and each SO_2 CAIR unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 96 ,Subpart HHH, and Rule 62-296.470, F.A.C.
(2) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HHH, shall be used to determine compliance by each CAIR SO_2 source with the following CAIR SO_2 Emission Requirements.

SO_2 Emission Requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO_2 source and each CAIR SO_2 unit at the source shall hold, in the source's compliance account, a tonnage equivalent in CAIR SO_2 allowances available for compliance deductions for the control period, as determined in accordance with 40 CFR 96.254(a) and (b), not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO_2 units at the source, as determined in accordance with 40 CFR Part 96, Subpart HHH.
(2) A CAIR SO_2 unit shall be subject to the requirements under paragraph (1) of the Sulfur Dioxide Emission Requirements starting on the later of January 1, 2010 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.270(b)(1) or (2) and for each control period thereafter.
(3) A CAIR SO_2 allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the SO_2 Emission Requirements, for a control period in a calendar year before the year for which the CAIR SO_2 allowance was allocated.
(4) CAIR SO_2 allowances shall be held in, deducted from, or transferred into or among CAIR SO_2 Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FFF and GGG.
(5) A CAIR SO_2 allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO_2 Trading Program. No provision of the CAIR SO_2 Trading Program, the CAIR Part, or an exemption under 40 CFR 96.205 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.
(6) A CAIR SO_2 allowance does not constitute a property right.
(7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart FFF or GGG, every allocation, transfer, or deduction of a CAIR SO_2 allowance to or from a CAIR SO_2 unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR SO_2 unit.

Excess Emissions Requirements.

If a CAIR SO_2 source emits SO_2 during any control period in excess of the CAIR SO_2 emissions limitation, then:
(1) The owners and operators of the source and each CAIR SO_2 unit at the source shall surrender the CAIR SO_2 allowances required for deduction under 40 CFR 96.254(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law; and
(2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AAA, the Clean Air Act, and applicable state law.

P.L. BARTOW POWER PLANT
Plant Name (from STEP 1)

STEP 3, Continued

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR SO_2 source and each CAIR SO_2 unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Department or the Administrator.
(i) The certificate of representation under 40 CFR 96.213 for the CAIR designated representative for the source and each CAIR SO_2 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR 96.213 changing the CAIR designated representative.
(ii) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HHH, of this part, provided that to the extent that 40 CFR Part 96, Subpart HHH, provides for a 3-year period for recordkeeping, the 3-year period shall apply.
(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR SO_2 Trading Program.
(iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR SO_2 Trading Program or to demonstrate compliance with the requirements of the CAIR SO_2 Trading Program.
(2) The CAIR designated representative of a CAIR SO_2 source and each CAIR SO_2 unit at the source shall submit the reports required under the CAIR SO_2 Trading Program, including those under 40 CFR Part 96, Subpart HHH.

Liability.

(1) Each CAIR SO_2 source and each CAIR SO_2 unit shall meet the requirements of the CAIR SO_2 Trading Program.
(2) Any provision of the CAIR SO_2 Trading Program that applies to a CAIR SO_2 source or the CAIR designated representative of a CAIR SO_2 source shall also apply to the owners and operators of such source and of the CAIR SO_2 units at the source.
(3) Any provision of the CAIR SO_2 Trading Program that applies to a CAIR SO_2 unit or the CAIR designated representative of a CAIR SO_2 unit shall also apply to the owners and operators of such unit.

Effect on Other Authorities.

No provision of the CAIR SO_2 Trading Program, a CAIR Part, or an exemption under 40 CFR 96.205 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR SO_2 source or CAIR SO_2 unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

CAIR NO_x OZONE SEASON TRADING PROGRAM

CAIR Part Requirements.

(1) The CAIR designated representative of each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall:
(i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.322 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and
(ii) [Reserved];
(2) The owners and operators of each CAIR NO_x Ozone Season source required to have a Title V operating permit or air construction permit, and each CAIR NO_x Ozone Season unit required to have a Title V operating permit or air construction permit at the source shall have a CAIR Part included in the Title V operating permit or air construction permit issued by the DEP under 40 CFR Part 98, Subpart CCCC, for the source and operate the source and the unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

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

NO_x Ozone Season Emission Requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NO_x Ozone Season allowances available for compliance deductions for the control period under 40 CFR 96.354(a) in an amount not less than the tons of total NO_x emissions for the control period from all CAIR NO_x Ozone Season units at the source, as determined in accordance with 40 CFR Part 96, Subpart HHHH.
(2) A CAIR NO_x Ozone Season unit shall be subject to the requirements under paragraph (1) of the NO, Ozone Season Emission Requirements starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.370(b)(1),(2), or (3) and for each control period thereafter.
(3) A CAIR NO_x Ozone Season allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the NO_x Ozone Season Emission Requirements, for a control period in a calendar year before the year for which the CAIR NO_x Ozone Season allowance was allocated.
(4) CAIR NO_x Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NO_x Ozone Season Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FFFF and GGGG.
(5) A CAIR NO_x Ozone Season allowance is a limited authorization to emit one ton of NO_x in accordance with the CAIR NO_x Ozone Season Trading Program. No provision of the CAIR NO_x Ozone Season Trading Program, the CAIR Part, or an exemption under 40 CFR 96.305 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.
(6) A CAIR NO_x Ozone Season allowance does not constitute a property right.
(7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart EEEE, FFFF or GGGG, every allocation, transfer, or deduction of a CAIR NO_x Dzone Season allowance to or from a CAIR NO_x Ozone Season unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR NO_x Ozone Season unit.

P.L. BARTOW POWER PLANT
Plant Name (from STEP 1)

STEP 3, Continued

Excess Emissions Requirements.

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

Recordkeeping and Reporting Requirements.

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

Liability.

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

Effect on Other Authorities.

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

STEP 4

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

Certification (for designated representative or alternate designated representative only)

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

Name: Patricia Q. West	Title: Manager, Environmental Services, Energy Supply Florida
Company Owner Name FLORIDA POWER CORPORATION DBA PROGRESS ENERGY FLORIDA, INC.	
Phone: 727.820.5739	E-mail Address: Patricia.West@pgnmail.com
Signature Patricia Q. West	Date 4/29/09

SECTION VI. APPENDICES.

The Following Appendices Are Enforceable As Allowed By Rule Applicability And Are Supporting Documents For The Air Operating Permit

Appendix A, Glossary.
Appendix I, List of Insignificant Emissions Units and/or Activities.
Appendix NESHAP, Subpart A – General Provisions. (E.U. 038, 039, 040 and 041)
Appendix NESHAP, Subpart YYYY. (E.U. 038, 039, 040 and 041)
Appendix NSPS, Subpart A – General Provisions. (E.U. 038, 039, 040, 041, 044 and 046)
~~Appendix NSPS, Subpart GG. (E.U. 005, 006, 007 and 008)~~
Appendix NSPS, Subpart IIII. (E.U. 046)
Appendix NSPS, Subpart KKKK. (E.U. 038, 039, 040 and 041)
Appendix RR, Facility-wide Reporting Requirements.
Appendix TR, Facility-wide Testing Requirements.
Appendix TV, Title V General Conditions.
Appendix U, List of Unregulated Emissions Units and/or Activities.

Table 2-1, Summary of Compliance Requirements

Progress Energy Florida
Bartow Plant

Permit No.: 1030011-016-AV
Facility ID No.: 1030011

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

E.U. ID No. **Brief Description**
[-044] Four Small Gaseous-fueled Process Heaters (3 MMBtu/hr)

Pollutant Name or Parameter	Fuel(s)	Compliance Method	Testing Time Frequency	Frequency Base Date *	Min. Compliance Test Duration	CMS**	See permit condition(s)
VE		EPA Method 9	~~Annual~~ ~~Upon Request~~		30 min		**E.10. - E.12.**
CO		EPA Method 10	~~Annual~~ ~~Upon Request~~				**E.10. - E.12.**

Notes:
* The frequency base date is established for planning purposes only; see Rule 62-297.310, F.A.C.
**CMS [=] continuous monitoring system

[electronic file name: 10300112.xls]

Livingston, Sylvia

From: Livingston, Sylvia
Sent: Friday, October 16, 2009 2:47 PM
To: thomas.callaghan@pgnmail.com
Cc: thomas.lawery@pgnmail.com; chris.bradley@pgnmail.com; sosbourn@golder.com; forney.kathleen@epamail.epa.gov; oquendo.ana@epamail.epa.gov; Nasca, Mara; phesslin@pinellascounty.org; Friday, Barbara; Gibson, Victoria; Holtom, Jonathan; Heron, Teresa
Subject: Progress Energy Florida - Bartow Plant; 1030011-016-AV

Dear Sir/ Madam:

Attached is the official **Proposed Determination** for the project referenced below. Click on the link displayed below to access the permit project documents and send a "reply" message verifying receipt of the document(s) provided in the link; this may be done by selecting "Reply" on the menu bar of your e-mail software, noting that you can view the documents, and then selecting "Send". **We must receive verification that you are able to access the documents.** Your immediate reply will preclude subsequent e-mail transmissions to verify accessibility of the document(s).

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Owner/Company Name: FLORIDA POWER CORPDBAPROGRESS ENERGY FLA
Facility Name: BARTOW PLANT
Project Number: 1030011-016-AV
Permit Status: PROPOSED
Permit Activity: PERMIT RENEWAL
Facility County: PINELLAS
Processor: Teresa Heron

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Sylvia Livingston
Bureau of Air Regulation
Division of Air Resource Management (DARM)

Livingston, Sylvia

From: Callaghan, Tom [Tom.Callaghan@pgnmail.com]
Sent: Tuesday, October 20, 2009 9:52 AM
To: Livingston, Sylvia
Subject: RE: Progress Energy Florida - Bartow Plant; 1030011-016-AV

Viewed.

Thanks,

Tom

From: Livingston, Sylvia [mailto:Sylvia.Livingston@dep.state.fl.us]
Sent: Friday, October 16, 2009 4:51 PM
To: Callaghan, Tom
Subject: Progress Energy Florida - Bartow Plant; 1030011-016-AV

Dear Sir/ Madam:

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Facility Name: BARTOW PLANT

Project Number: 1030011-016-AV

Permit Status: PROPOSED

Permit Activity: PERMIT RENEWAL

Facility County: PINELLAS

Processor: Teresa Heron

Livingston, Sylvia

From: Livingston, Sylvia
Sent: Friday, October 16, 2009 4:51 PM
To: Tom.Callaghan@pgnmail.com
Subject: Progress Energy Florida - Bartow Plant; 1030011-016-AV

Dear Sir/ Madam:

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Sylvia Livingston
Bureau of Air Regulation
Division of Air Resource Management (DARM)
850/921-9506
sylvia.livingston@dep.state.fl.us

Livingston, Sylvia

From: Nasca, Mara
Sent: Friday, October 16, 2009 3:02 PM
To: Prickett, Patricia
Cc: Zhang-Torres; Livingston, Sylvia
Subject: FW: Progress Energy Florida - Bartow Plant; 1030011-016-AV

From: Livingston, Sylvia
Sent: Friday, October 16, 2009 2:47 PM
To: thomas.callaghan@pgnmail.com
Cc: thomas.lawery@pgnmail.com; chris.bradley@pgnmail.com; sosbourn@golder.com; forney.kathleen@epamail.epa.gov; oquendo.ana@epamail.epa.gov; Nasca, Mara; phesslin@pinellascounty.org; Friday, Barbara; Gibson, Victoria; Holtom, Jonathan; Heron, Teresa
Subject: Progress Energy Florida - Bartow Plant; 1030011-016-AV

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Livingston, Sylvia

From: Bradley, Chris [Chris.Bradley@pgnmail.com]
Sent: Friday, October 16, 2009 4:14 PM
To: Livingston, Sylvia
Subject: RE: Progress Energy Florida - Bartow Plant; 1030011-016-AV

Good afternoon Ms. Livingston -

I am able to access the referenced documents through the link provided.

Best regards,

Chris Bradley
Sr. Environmental Specialist
Technical Services/EHSS Section-POG
Progress Energy Florida, Inc.
Telephone: 727.820.5962
Fax: 727.820.5229
E-mail: Chris.Bradley@pgnmail.com

From: Livingston, Sylvia [mailto:Sylvia.Livingston@dep.state.fl.us]
Sent: Friday, October 16, 2009 2:47 PM
To: thomas.callaghan@pgnmail.com
Cc: Lawery, Thomas D; Bradley, Chris; sosbourn@golder.com; forney.kathleen@epamail.epa.gov; oquendo.ana@epamail.epa.gov; Nasca, Mara; phesslin@pinellascounty.org; Friday, Barbara; Gibson, Victoria; Holtom, Jonathan; Heron, Teresa
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Sylvia Livingston

Bureau of Air Regulation

Division of Air Resource Management (DARM)

850/921-9506

sylvia.livingston@dep.state.fl.us

<<1030011-016-AV_signature.pdf>>

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

Livingston, Sylvia

From: Hessling, Peter A [phesslin@co.pinellas.fl.us]
Sent: Monday, October 19, 2009 8:20 AM
To: Livingston, Sylvia
Subject: RE: Progress Energy Florida - Bartow Plant; 1030011-016-AV

Received and documents accessible. Thank you.

Peter Hessling
Air Quality Division
727-464-4422

From: Livingston, Sylvia [mailto:Sylvia.Livingston@dep.state.fl.us]
Sent: Friday, October 16, 2009 2:47 PM
To: thomas.callaghan@pgnmail.com
Cc: thomas.lawery@pgnmail.com; chris.bradley@pgnmail.com; sosbourn@golder.com; forney.kathleen@epamail.epa.gov; oquendo.ana@epamail.epa.gov; Nasca, Mara; Hessling, Peter A; Friday, Barbara; Gibson, Victoria; Holtom, Jonathan; Heron, Teresa
Subject: Progress Energy Florida - Bartow Plant; 1030011-016-AV

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Facility Name: BARTOW PLANT

Project Number: 1030011-016-AV

Permit Status: PROPOSED

Permit Activity: PERMIT RENEWAL

Facility County: PINELLAS

Processor: Teresa Heron

Livingston, Sylvia

From: Prickett, Patricia
Sent: Monday, October 19, 2009 12:25 PM
To: Livingston, Sylvia
Subject: RE: Progress Energy Florida - Bartow Plant; 1030011-016-AV

Good Afternoon,
I was able to open and print out the above referenced document.
Thank you,

Patricia Prickett

Patricia Prickett
Senior Clerk
FDEP - Air Program - SWD
(813) 632-7600 Ext 102

Email: Patricia.Prickett@dep.state.fl.us

From: Nasca, Mara
Sent: Friday, October 16, 2009 3:02 PM
To: Prickett, Patricia
Cc: Zhang-Torres; Livingston, Sylvia
Subject: FW: Progress Energy Florida - Bartow Plant; 1030011-016-AV

From: Livingston, Sylvia
Sent: Friday, October 16, 2009 2:47 PM
To: thomas.callaghan@pgnmail.com
Cc: thomas.lawery@pgnmail.com; chris.bradley@pgnmail.com; sosbourn@golder.com; forney.kathleen@epamail.epa.gov; oquendo.ana@epamail.epa.gov; Nasca, Mara; phesslin@pinellascounty.org; Friday, Barbara; Gibson, Victoria; Holtom, Jonathan; Heron, Teresa
Subject: Progress Energy Florida - Bartow Plant; 1030011-016-AV

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Sylvia Livingston
Bureau of Air Regulation
Division of Air Resource Management (DARM)
850/921-9506
sylvia.livingston@dep.state.fl.us

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