

Florida Department of
Environmental Protection

Memorandum

TO: Trina Vielhauer, Bureau of Air Regulation
THROUGH: Jon Holtom, Title V Section *jt*
FROM: Tom Cascio *TC*
DATE: January 5, 2009
SUBJECT: Proposed Title V Air Operation Permit No. 0990042-004-AV
Florida Power and Light Company, Riviera Plant
Title V Air Operation Permit Renewal

Attached for your review are the following items:

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

The proposed permit renews the Title V air operation permit for the Riviera Plant, which is located in Palm Beach County, Florida. The Statement of Basis provides a summary of the project and the rationale for issuance.

The draft Title V air operation permit package was clerked on November 18, 2008. No comments were received from the public during the 30 (thirty)-day public comment period. However, comments were received from the applicant, and minor changes were made to the draft Title V air operation permit.

I recommend your approval of the attached proposed Title V air operation package.

Attachments



Florida Department of Environmental Protection

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

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

January 5, 2009

Electronic Mail – Received Receipt Requested.

Mr. Jeff Smith, Plant General Manager
Florida Power and Light Company
200-300 Broadway
Riviera Beach, Florida 33404

Re: Permit No. 0990042-004-AV
Riviera Plant
Title V Air Operation Permit Renewal

Dear Mr. Smith:

One copy of the Proposed Determination for the Title V Air Operation Permit Renewal for the Riviera Plant, located at 200-300 Broadway, in Riviera Beach is enclosed. This letter is only a courtesy to inform you that the Draft Title V Air Operation Permit has now become a Proposed Title V Air Operation Permit. An electronic version of this determination has been posted on the Division of Air Resources Management's web site for the United States Environmental Protection Agency (USEPA) Region 4 office's review. The web site address is: <http://www.dep.state.fl.us/air/eproducts/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 Title V Air Operation Permit will become a Final Title V Air Operation Permit no later than 55 days after the date on which the Proposed Title V Air Operation Permit was mailed (posted) to USEPA. If USEPA has an objection to the Proposed Title V Air Operation Permit, the Final Title V Air Operation 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, Tom Cascio, by telephone at 850-921-9526 or by email at tom.cascio@dep.state.fl.us.

Sincerely,

for Trina L. Vielhauer
Chief
Bureau of Air Regulation

TLV/jkh/tbc

Enclosure

Copies sent by electronic mail (return receipt requested) to the following:

Mr. Jeff Smith, Florida Power and Light Company: jeff_smith@fpl.com
Ms. Sheila M. Wilkinson, Florida Power and Light Company: Sheila_Wilkinson@fpl.com
Mr. Kennard Kosky, Golder Associates: kkosky@golder.com
Ms. Katy Forney, U.S. EPA Region 4: forney.kathleen@epa.gov
Ms. Ana Oquendo, U.S. EPA Region 4: oquendo.ana@epamail.epa.gov
Mr. James Stormer, Palm Beach County Health Department: james_stormer@doh.state.fl.us
Ms. Barbara Friday, DEP BAR: Barbara.Friday@dep.state.fl.us (for posting with U.S. EPA, Region 4)
Ms. Vickie Gibson, DEP BAR: Victoria.Gibson@dep.state.fl.us (read file copy)

PROPOSED PERMIT DETERMINATION

Proposed Permit No. 0990042-004-AV

I. Public Notice.

An Intent To Issue A Title V Air Operation Permit Renewal to Florida Power and Light Company for the Riviera Plant, located at 200-300 Broadway, in Riviera Beach, Palm Beach County, was clerked on November 18, 2008. The Public Notice Of Intent To Issue A Title V Air Operation Permit Renewal was published in the Palm Beach Post on December 2, 2008. 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 A Title V Air Operation Permit Renewal was received on December 8, 2008.

II. Public Comment(s).

No comments were received from the Public during the 30 (thirty)-day public comment period, however, comments were received from the Permittee. The comments were not considered significant enough to reissue the Draft Title V Air Operation 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 Florida Power and Light Company dated December 19, 2008.

Comment 1.

Subsection C, Applicable Regulations Table needs to be corrected.

Response 1.

The Department believes this comment is a remnant from the FPL Martin Plant response.

Comment 2.

Page 3, FW1. Appendices. FPL requests that the word "all" be replaced by "all applicable".

Response 2.

The Department disagrees with the comment. All documents shall be complied with (notwithstanding that some sections of some documents may be deemed not applicable).

Comment 3.

Page 3, Section II, Facility-Wide Conditions, FW2.:

FPL requests the statement "Not Federally Enforceable" be added to the beginning of the condition.

Response 3.

The Department disagrees with this comment and believes the specific condition is valid as written.

Comment 4.

Page 3, FW4. General Visible Emissions. FPL requests that the following phrase be added to the first sentence as in the existing Title V permit: "Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall ...".

Response 4.

The Department disagrees with the comment. The current wording of the specific condition is consistent with the Department rules.

Comment 5.

Page 4, **FW10. Clean Air Initiative Rule (CAIR) Applicable Units.** FPL requests wording changes dealing with certain application requirements be made to the condition.

Response 5.

The Department does not agree with this comment. While it is true that application data is not typically enforceable, the CAIR application is like an Acid Rain part that we simply incorporate into the permit as submitted by the applicant. Complying with the CAIR application will help to assure compliance with the CAIR rule pending any required revisions to the Title V permit.

Comment 6.

Page 7, **A.1. Permitted Capacity.** FPL requests that the following permitting note from the current Title V permit noted below be reinstated in the specific condition.

{Permitting note: The heat input limitations have been placed in each permit to identify the capacity of each unit for the purposes of confirming that emissions testing is conducted within 90 to 100 percent of the unit's rated capacity (or to limit future operation to 110 percent of the test load), to establish appropriate emission limits and to aid in determining future rule applicability.}

Response 6.

The Department disagrees with the comment. However, the following clarifying permitting note will be added following Specific Condition A.1.

{Permitting note: An estimated "real time" heat input value can be calculated for agency compliance inspectors upon request. The averaging time for the estimated heat input will be a 3-hour block that may utilize fuel flow or tank drop data to determine the fuel usage which will be multiplied by the last available heating value of the fuel. If sampling is needed to determine the current heat input value, the adjusted heat input value will be provided to the inspector after test results are received for the heat value of the fuel and a corrected fuel heat input is calculated.}

Comment 7.

FPL requests that certain test methods be added to the table of Specific Condition A.16.

Response 7.

The Department agrees with this comment. The specific condition is modified as follows.

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
<u>3A</u>	<u>Determination of Oxygen and Carbon Dioxide Concentrations in Emissions from Stationary Sources</u>
<u>5, 5B</u>	Method for Determining Particulate Matter Emissions (All PM is assumed to be PM ₁₀ .)

Method	Description of Method and Comments
6C	Determination of Sulfur Dioxide Emissions from Stationary Sources
7E	Determination of Nitrogen Oxide Emissions from Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources
17	Determination of Particulate Matter Emissions from Stationary Sources
18	Measurement of Gaseous Organic Compound Emissions by Gas Chromatography
19	Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxides Emission Rates (Optional F-factor method may be used to determine flow rate and gas analysis to calculate mass emissions in lieu of Methods 1-4.)
20	Determination of Nitrogen Oxides, Sulfur Dioxide and Diluent Emissions from Stationary Gas Turbines
25A	Method for Determining Gaseous Organic Concentrations (Flame Ionization)

Comment 8.

Page 8, **A.18.** Compliance Tests Prior to Renewal. FPL requests that testing for NO_x and SO₂ be removed from the specific condition.

Response 8.

The Department does not agree with this comment. See Specific Condition TR.7. in the Appendix.

Comment 9.

Page 8, **A.20.** Beginning with the sentence EPA Method 3 or 3A, remove the phrase “with Orsat analysis”. Method 3A does not reference the Orsat. The phrase “with Orsat analysis” appears confusing as stated and does not change the requirements.

Response 9.

The Department agrees with this comment. The specific condition is modified as follows.

A.20. Particulate Matter. See Specific Condition **A.16.** The test methods for particulate emissions shall be EPA Methods 17, 5, 5B, or 5F, incorporated by reference in Chapter 62-297, F.A.C. The minimum sample volume shall be 30 dry standard cubic feet. EPA Method 5 may be used with filter temperature no more than 320 degrees Fahrenheit. For EPA Method 17, stack temperature shall be less than 375 degrees Fahrenheit. The owner or operator may use EPA Method 5 to demonstrate compliance. EPA Method 3 or 3A ~~with Orsat analysis~~ shall be used when the oxygen based F-factor, computed according to EPA Method 19, is used in lieu of heat input. Acetone wash shall be used with EPA Method 5 or 17. Particulate testing shall be conducted in accordance with the requirements of specific condition **A.23** of this permit. [Rules 62-213.440, 62-296.405(1)(e)2. and 62-297.401, F.A.C.]

Comments 10 and 11.

These comments appear to be remnants from the aforementioned FPL Martin Plant response.

Comment 12.

Page 61. **Section V, Appendices.** FPL requests a revision to the statement “The Following Appendices Are Enforceable Parts of This Permit”.

Response 17.

The Department agrees to change the subtitle as follows:

The Following Appendices Are Enforceable ~~Parts Of This Permit~~ As Allowed By Rule Applicability And Are Supporting Documents For The Air Operating Permit:

III. Conclusion.

The permitting authority will issue the Proposed Title V Air Operation Permit Number 0990042-004-AV, with the minor changes indicated above.

STATEMENT OF BASIS

Title V Air Operation Permit Renewal Permit No. 0990042-004-AV

APPLICANT

The applicant for this project is Florida Power and Light Company. The applicant's responsible official and mailing address are: Mr. Jeff Smith, Plant General Manager, Florida Power and Light Company, Riviera Plant, 200-300 Broadway, Riviera Beach, Florida 33404.

FACILITY DESCRIPTION

The applicant operates the Riviera Plant, which is located at 200-300 Broadway, Riviera Beach, Florida.

This existing facility consists of two fossil fuel steam generators, Unit 3 and Unit 4, each rated at 300 megawatts (MW) (315 MW gross capacity) output. The steam generators each burn a variable combination of No. 6 fuel oil, No. 2 fuel oil, natural gas, propane, used oil from Florida Power and Light Company operations, and expired fuel oil samples from the company's central laboratory, discharging pollutants through a stack 298 feet above ground level. Each unit is a Foster-Wheeler outdoor type boiler, equipped with low nitrogen oxides (NO_x) burners and Research-Cotrell multiple cyclones with ash re-injection, with a General Electric Company steam turbine that drives an oil and hydrogen-cooled 300 MW class generator with capability of 315 MW.

The facility had at one time operated a 75 MW steam generating unit, Unit 2, which is no longer in service. This unit was last operated for power production in 1985. Its operating permit was surrendered by letter dated July 7, 1997. The unit is permanently retired under the federal Acid Rain Program.

Also included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities.

PROJECT DESCRIPTION

The purpose of this permitting project is to renew the existing Title V permit for the above referenced facility.

PRIMARY REGULATORY REQUIREMENTS

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

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

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

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

CAM: Compliance Assurance Monitoring (CAM) does not apply to any of the units at the facility for the following reasons. There are no add-on pollution control devices for nitrogen oxides and sulfur dioxide. Compliance with the emission limits is demonstrated using continuous emissions monitoring systems (CEMS). Regarding particulate matter, the mechanical dust collectors are excluded from CAM, because they are (a) inherent process equipment contained entirely within the flue ductwork, (b) use a passive method of particulate matter separation from the flue gas stream, (c) recover unburned carbon and ash from the flue gas system, and (d) have no moving parts, no control inputs, nor any controllable parameters.

PROJECT REVIEW

Minor changes were made to the facility's existing Title V Air Operation Permit. These included reformatting of specific conditions, replacement of TV-4 with new Appendix TV, and streamlining of emissions unit sections by moving common conditions to the new appendices. Based on a review of the application and subsequent ambient modeling by personnel at the Palm Beach County Health Department, violations of the sulfur dioxide ambient air quality standards were predicted. Pursuant to Rule 62-204.220(2), F.A.C., the Department shall not issue an air

STATEMENT OF BASIS

permit to any source that causes or contributes to a violation of an ambient air quality standard established under Rule 62-204.240, F.A.C. As required by the modeling results and upon agreement by the applicant, the SO₂ limit for units 3 and 4 has been reduced from 2.75 pounds per million British thermal unit (lbs/MMBtu) to 1.3 lbs/MMBtu heat input for the 24-hour average and 1.9 lb/MMBtu heat input for the 3-hour average. Specific conditions in the Title V air operation permit were changed as follows:

A.9. Sulfur Dioxide. To avoid modeled violations of the ambient air quality standards established under Rule 62-204.240, F.A.C., sulfur dioxide emissions shall not exceed ~~2.75~~ 1.3 pounds per million Btu (lb/MMBtu) heat input for the 24-hour average and 1.9 lb/MMBtu heat input for the 3-hour average, as measured by applicable compliance methods. Compliance shall be based on the total heat input from all liquid and gaseous fuels burned. The sulfur dioxide emission limitation shall apply at all times including startup, shutdown, and load change. [Rules 62-213.440 and ~~62-296.405(1)(e)1-j,~~ 62-204.220, F.A.C.]

A.14. Sulfur Dioxide. The owner or operator of the emission units shall demonstrate compliance with the sulfur dioxide limit of this permit by the following:

- a. Through the use of a continuous emission monitoring system (CEMS) installed, calibrated, operated and maintained in accordance with the quality assurance requirements of 40 CFR 75, adopted and incorporated by reference in Rule 62-204.800, F.A.C. A Relative Accuracy Test Audit (RATA) of the SO₂ CEMS shall be conducted no less than annually. Compliance shall be demonstrated based on a 3-hour rolling average.
- b. In the event the CEMS becomes temporarily inoperable or interrupted, the fuels and the maximum fuel oil to natural gas firing ratio that shall be used is limited to that which was last used to demonstrate compliance prior to the loss of the CEMS, or the emissions units shall fuel switch and be fired with a fuel oil containing a maximum sulfur content of ~~2.5~~ 1.18 %, by weight, or less.
- c. When burning 100% fuel oil, the emissions units shall be fired with a fuel oil containing a maximum sulfur content of ~~2.5~~ 1.18 %, by weight, or less.

[Rules 62-213.440, 62-204.800 and 62-296.405(1)(c)3., F.A.C.]

A.24. Operating Conditions During Testing - PM and VE. Compliance testing during soot blowing and steady-state operation for particulate matter and visible emissions shall be conducted at least once annually, if liquid fuel is fired for more than 400 hours. A visible emissions test shall be conducted during one run of each particulate matter test. ~~Testing shall be conducted as follows:~~

- a. ~~When Burning Fuel Oil Up To 2.5% Sulfur.~~ When only fuel oil containing less than or equal to 2.5% sulfur, by weight, is fired (or co-fired with natural gas) in an emissions unit, ~~particulate matter and visible emissions tests during soot blowing and steady-state operation shall be performed on such emissions unit while firing solely fuel oil containing at least 90% of the average sulfur content of the fuel oils fired in the previous 12 month period, except that such test shall not be required to be performed during any year that testing is performed in accordance with specific condition A.24.b.~~
- b. ~~When Burning Fuel Oil Greater Than 2.5% Sulfur.~~ If fuel oil containing greater than 2.5% sulfur, by weight, is co-fired with natural gas in an emissions unit, ~~particulate matter and visible emissions tests during soot blowing and steady-state operation shall be performed as soon as practicable, but in no event more than 60 days after firing such fuel oil, while co-firing such oil with the appropriate proportion of natural gas required to maintain SO₂ emissions between 90 to 100% of the SO₂ emission limit (corresponding to 2.475 and 2.75 lb/MMBtu heat input). Following successful completion of such PM and VE testing, further PM and VE testing shall not be required during the next 12 months unless fuel oil is fired that contains greater than 0.20% sulfur above the percentage sulfur concentration fired during the most recent co-firing test. If fuel oil is co-fired containing greater than 0.20% sulfur above the percentage sulfur concentration fired during the most recent co-firing test, additional PM and VE tests shall be performed as described above as soon as practicable, but in no event more than 60 days after firing such higher sulfur fuel oil.~~

[Rules 62-4.070(3), 62-213.440, 62-296.405(1)(c)3. and 62-297.310(7)(a), F.A.C.]

STATEMENT OF BASIS

CONCLUSION

This project renews Title V air operation permit No. 0990042-003-AV, which was issued on January 1, 2004. This Title V air operation permit renewal is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Chapters 62-4, 62-210 and 62-213, F.A.C. In accordance with the terms and conditions of this permit, the above named permittee is hereby authorized to operate the facility as shown on the application and approved drawings, plans, and other documents, on file with the permitting authority.

Florida Power and Light Company
Riviera Plant
Facility ID No. 0990042
Palm Beach County

Title V Air Operation Permit Renewal

Permit No. 0990042-004-AV
(Renewal of Title V Air Operation Permit No. 0990042-003-AV)

Permitting Authority

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

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

Telephone: 850/488-0114
Fax: 850/921-9533

Compliance Authority

State of Florida
Palm Beach County Health Department

Air Section
901 Evernia Street
Post Office Box 29
West Palm Beach, FL 33401

Telephone: 561/355-3070
Fax: 561/355-2442

Title V Air Operation Permit Renewal

Permit No. 0990042-004-AV

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PROPOSED PERMIT

PERMITTEE:

Florida Power and Light Company
200-300 Broadway
Riviera Beach, Florida 33404

Permit No. 0990042-004-AV
Riviera Plant
Facility ID No. 0990042
Title V Air Operation Permit Renewal

The purpose of this permit is to renew the Title V air operation permit for the above referenced facility. The existing Riviera Plant is located at 200-300 Broadway, Riviera Beach, in Palm Beach County. UTM Coordinates are: Zone 17, 594.249 km East and 2960.632 km North. Latitude is: 26° 45' 55" North; and, Longitude is: 80° 03' 09" 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 shown on the application and approved drawings, plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

Effective Date: January 1, 2009
Renewal Application Due Date: May 20, 2013
Expiration Date: December 31, 2013

(Proposed)

Joseph Kahn, Director
Division of Air Resource Management

JK/tlv/jkh/tbc

SECTION I. FACILITY INFORMATION.

Subsection A. Facility Description.

This facility consists of two fossil fuel steam generators, Unit 3 and Unit 4, each rated at 300 megawatts (MW) (315 MW gross capacity) output. The steam generators each burn a variable combination of No. 6 fuel oil, No. 2 fuel oil, natural gas, propane, used oil from Florida Power and Light Company operations, and expired fuel oil samples from the company's central laboratory, discharging pollutants through a stack 298 feet above ground level. Each unit is a Foster-Wheeler outdoor type boiler, equipped with low nitrogen oxides (NO_x) burners and Research-Cottrell multiple cyclones with ash re-injection, with a General Electric Company steam turbine that drives an oil and hydrogen-cooled 300 MW class generator with capability of 315 MW. The facility had at one time operated a 75 MW steam generating unit, Unit 2, which is no longer in service. This unit was last operated for power production in 1985. Its operating permit was surrendered by letter dated July 7, 1997. The unit is permanently retired under the federal Acid Rain Program.

Subsection B. Summary of Emissions Units.

EU No.	Brief Description
<i>Regulated Emissions Units</i>	
003	Fossil Fuel Steam Generator, Unit 3
004	Fossil Fuel Steam Generator, Unit 4
<i>Unregulated Emissions Units and Activities</i>	
005	Painting and solvent cleaning
006	Emergency diesel generator, and mobile equipment and engines

Subsection C. Applicable Regulations.

Based on the Title V air operation permit renewal application received June 26, 2008, this facility is a major source of hazardous air pollutants (HAP). This facility is classified as a Prevention of Significant Deterioration (PSD) major facility. A summary of applicable regulations is shown in the following table.

Regulation	EU No(s).
40 CFR 75 Acid Rain Monitoring Provisions	003 and 004
State Rule Citations	
Rule 62-4, Florida Administrative Code (F.A.C.) (Permitting Requirements)	
Rule 62-204, F.A.C. (Ambient Air Quality Requirements, PSD Increments, and Federal Regulations Adopted by Reference)	
Rule 62-210, F.A.C. (Permits Required, Public Notice, Reports, Stack Height Policy, Circumvention, Excess Emissions, and Forms)	
Rule 62-212, F.A.C. (Preconstruction Review, PSD Review and Best Available Control Technology (BACT))	
Rule 62-213, F.A.C. (Title V Air Operation Permits for Major Sources of Air Pollution)	
Rule 62-214, F.A.C. (Requirements For Sources Subject To The Federal Acid Rain Program)	
Rule 62-296, F.A.C. (Emission Limiting Standards)	
Rule 62-297, F.A.C. (Test Methods and Procedures, Continuous Monitoring Specifications, and Alternate Sampling Procedures)	

SECTION II. FACILITY-WIDE CONDITIONS.

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

FW1. Appendices. The permittee shall comply with all documents identified in Section V, 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. Objectionable Odor Prohibited. No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rule 62-296.320(2) and 62-210.200 (Definitions), F.A.C.]

FW3. General Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed unnecessary and ordered by the Department. Nothing is deemed necessary and ordered at this time. [Rule 62-296.320(1)(a), 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. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:

- Paving of roads, parking areas, and equipment yards;
- Landscaping and planting vegetation;
- Use of thick poly flaps over the doorways to prevent any sandblasting material from leaving the sandblasting facility. The facility also constructs temporary sandblasting enclosures when necessary, in order to perform sandblasting on fixed plant equipment;
- Maintenance of paved roads as needed;
- Regular mowing of grass and care of vegetation;
- Limiting access to plant property by unnecessary vehicles;
- Bagged chemical products are stored in weather-tight buildings until they are used. Spills of any powered chemical products are cleaned up as soon as practicable; and,
- Vehicles are restricted to slow speeds on the plant site.

[Rule 62-296.320(4)(c)2., F.A.C.; and provided by the applicant in Title V air operation permit renewal application received June 26, 2008.]

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 May 1st for 2009 and April 1st for each year thereafter. [Rule 62-210.370(3), F.A.C.]

FW7. Annual Emissions Fee Form and Fee. The annual Title V emissions fees are due 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/permitting/tvfee.htm>. [Rule 62-213.205, F.A.C.]

SECTION II. FACILITY-WIDE CONDITIONS.

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 air operation permit was effective. [Rules 62-213.440(3)(a)2. & 3. and (b), F.A.C.]

FW9. Prevention of Accidental Releases (Section 112(r) of CAA).

- a. As required by Section 112(r)(7)(B)(iii) of the CAA and 40 CFR 68, the owner or operator shall submit an updated Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center.
- b. As required under Section 252.941(1)(c), F.S., the owner or operator shall report to the appropriate representative of the Department of Community Affairs (DCA), as established by department rule, within one working day of discovery of an accidental release of a regulated substance from the stationary source, if the owner or operator is required to report the release to the United States Environmental Protection Agency under Section 112(r)(6) of the CAA.
- c. The owner or operator shall submit the required annual registration fee to the DCA on or before April 1, in accordance with Part IV, Chapter 252, F.S., and Rule 9G-21, F.A.C.
- d. Any required written reports, notifications, certifications, and data required to be sent to the DCA, should be sent to: Department of Community Affairs, Division of Emergency Management, 2555 Shumard Oak Boulevard, Tallahassee, FL 32399-2100, Telephone: (850) 413-9921, Fax: (850) 488-1739.
- e. 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.

Any required reports to be sent to the National Response Center, should be sent to: National Response Center, EPA Office of Solid Waste and Emergency Response, USEPA (5305 W), 401 M Street SW, Washington, D.C. 20460, Telephone: (800) 424-8802.

Send the required annual registration fee using approved forms made payable to: Cashier, Department of Community Affairs, State Emergency Response Commission, 2555 Shumard Oak Boulevard, Tallahassee, FL 32399-2149

[Part IV, Chapter 252, F.S.; and, Rule 9G-21, F.A.C.]

FW10. Clean Air Interstate Rule (CAIR) Applicable Units. This facility contains emissions units that are subject to CAIR. On July 11, 2008, the U.S. Court of Appeals for the District of Columbia recommended vacature of the Clean Air Interstate Rule. Because of this decision, the applicable CAIR requirements that were identified in the renewal application are not being included in the permit at this time. If, and at such time that, CAIR is ultimately upheld, you must begin complying with the CAIR program requirements contained in the renewal application and the Title V air operation permit must be revised accordingly. [Rules 62-213.440 and 62-296.470, F.A.C.]

SECTION III. EMISSIONS UNITS AND CONDITIONS.
FOSSIL FUEL STEAM GENERATORS, UNIT 3 AND UNIT 4.

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

EU No.	Brief Description
003	Fossil Fuel Steam Generator, Unit 3
004	Fossil Fuel Steam Generator, Unit 4

Fossil fuel fired steam generators Unit 3 and Unit 4 are each nominal 300 megawatts (315 MW gross capacity) (electric) steam generators. Each emissions unit consists of a boiler which drives a turbine generator. Emissions are controlled with low NO_x burners and multiple cyclones with ash re-injection. Each unit is equipped with a 298 foot stack with an exit diameter of 16 feet. Unit 3 flow rate is 1,063,401 actual cubic feet per minute (acfm), exit velocity is 88.2 feet per second (fps) and exit temperature is 263 °F. Unit 4 flow rate is 1,052,646 acfm, exit velocity is 87.3 fps and exit temperature is 263 °F.

Compliance Assurance Monitoring (CAM) does not apply to these units for the following reasons. There are no add-on pollution control devices for nitrogen oxides and sulfur dioxide. Compliance with the emission limits is demonstrated using continuous emissions monitoring systems (CEMS). Regarding particulate matter, the mechanical dust collectors are excluded from CAM, because they are (a) inherent process equipment contained entirely within the flue ductwork, (b) use a passive method of particulate matter separation from the flue gas stream, (c) recover unburned carbon and ash from the flue gas system, and (d) have no moving parts, no control inputs, nor any controllable parameters.

{Permitting note(s): These emissions units are regulated under Acid Rain, Phase II; and Rule 62-296.405, F.A.C., Fossil Fuel Steam Generators with More than 250 million Btu per Hour Heat Input. Fossil fuel fired steam generator Unit 3 began commercial operation in 1962 and fossil fuel fired steam generator Unit 4 began commercial operation in 1963. These emissions units may inject additives such as magnesium oxide, magnesium hydroxide and related compounds into each boiler.}

Essential Potential to Emit (PTE) Parameters

A.1. Permitted Capacity. The maximum operation heat input rate is as follows:

Unit No.	Million British Thermal Units per Hour (MMBtu/hr) Heat Input*	Fuel Type
003	3260	Natural Gas
	3050	No. 2 or 6 Fuel Oil
004	3260	Natural Gas
	3050	No. 2 or 6 Fuel Oil

*When a blend of fuel oil and natural gas are burned, the heat input is prorated based upon the percent heat input of each fuel.

[Rules 62-4.160(2), 62-204.800, 62-210.200(PTE) and 62-296.405, F.A.C., Revised Operation Permits AO 50-206721 and AO 50-206722, issued August 2, 1993]

{Permitting note: An estimated "real time" heat input value can be calculated for agency compliance inspectors upon request. The averaging time for the estimated heat input will be a 3-hour block that may utilize fuel flow or tank drop data to determine the fuel usage which will be multiplied by the last available heating value of the fuel. If sampling is needed to determine the current heat input value, the adjusted heat input value will be provided to the inspector after test results are received for the heat value of the fuel and a corrected fuel heat input is calculated.}

SECTION III. EMISSIONS UNITS AND CONDITIONS.
FOSSIL FUEL STEAM GENERATORS, UNIT 3 AND UNIT 4.

- 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.**
- a. Startup: The only fuels allowed to be burned are any combination of natural gas or fuel oil, except propane may be utilized for ignition of the main fuel.
 - b. Normal: The only fuels allowed to be burned are any combination of No. 6 fuel oil, No. 2 fuel oil, natural gas, propane, on-specification used oil from Florida Power and Light Company (FPL) operations, and expired fuel oil samples from FPL's Central Laboratory.
[Rule 62-213.410, F.A.C.; Applicant's request in Title V air operation permit renewal application received June 26, 2008; AO 50-206721, Specific Conditions 1 and 3; and, AO 50-206721, Specific Conditions 1 and 3]
- A.4. Hours of Operation.** These emissions units may operate continuously (8760 hours/year). [Rule 62-210.200(PTE), F.A.C.]

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 A.5.-A.10. are based on the specified averaging time of the applicable test method.

- A.5. Visible Emissions.** Visible emissions shall not exceed 40 percent opacity. Emissions units governed by this visible emissions standard shall compliance test for particulate matter emissions annually. [Rule 62-296.405(1)(a), F.A.C.; and OGC Case No. 83-0587 & 83-0588, Order dated April 24, 1984]
- A.6. Visible Emissions - Soot Blowing and Load Change.** Visible emissions shall not exceed 60 percent opacity during the 3-hours in any 24 hour period of excess emissions allowed for boiler cleaning (soot blowing) and load change.
A load change occurs when the operational capacity of a unit is in the 10 percent to 100 percent capacity range, other than startup or shutdown, which exceeds 10 percent of the unit's rated capacity and which occurs at a rate of 0.5 percent per minute or more.
Visible emissions above 60 percent opacity shall be allowed for not more than 4, six (6)-minute periods, during the 3-hour period of excess emissions allowed by this condition.
[Rule 62-210.700(3), F.A.C., Note: these units have operational continuous opacity monitors.]
- A.7. Particulate Matter.** Particulate matter emissions shall not exceed 0.1 pound per million Btu heat input, as measured by applicable compliance methods. [Rule 62-296.405(1)(b), F.A.C.]
- A.8. Particulate Matter - Soot Blowing and Load Change.** Particulate matter emissions shall not exceed an average of 0.3 pound per million Btu heat input during the 3-hours in any 24-hour period of excess emissions allowed for boiler cleaning (soot blowing) and load change. [Rule 62-210.700(3), F.A.C.]
- A.9. Sulfur Dioxide.** To avoid modeled violations of the ambient air quality standards established under Rule 62-204.240, F.A.C., sulfur dioxide emissions shall not exceed ~~2.75~~ 1.3 pounds per million Btu (lb/MMBtu) heat input for the 24-hour average and 1.9 lb/MMBtu heat input for the 3-hour average, as measured by applicable compliance methods. Compliance shall be based on the total heat input from all liquid and gaseous fuels burned. The sulfur dioxide emission limitation shall apply at all times including startup, shutdown, and load change. [Rules 62-213.440 and ~~62-296.405(1)(e)1-j,~~ 62-204.220, F.A.C.]

SECTION III. EMISSIONS UNITS AND CONDITIONS.
FOSSIL FUEL STEAM GENERATORS, UNIT 3 AND UNIT 4.

- A.10. Nitrogen Oxides.** Nitrogen oxides emissions shall not exceed 0.50 pounds per million Btu while firing natural gas, and 0.62 pounds per million Btu while firing oil. Compliance shall be demonstrated based on a 30-day rolling average as measured by a CEMS. The CEMS must meet the performance specifications contained in 40 CFR 60, Appendix B, or 40 CFR 75.
[Rules 62-296.570(4)(a)4. and (4)(b)3., F.A.C.; and, Revised Operation Permits AO 50-206721 and AO 50-206722, Issued August 2, 1993]

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.11. Excess Emissions from Malfunction.** Excess emissions resulting from malfunction shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C.]
- A.12. Excess Emissions Permitted.** Excess emissions resulting from startup or shutdown shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized. (Note: This condition does not apply to Specific Condition A.9.) [Rule 62-210.700(2), F.A.C.]
- A.13. 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.]

Continuous Monitoring Requirements

- A.14. Sulfur Dioxide.** The owner or operator of the emission units shall demonstrate compliance with the sulfur dioxide limit of this permit by the following:
- a. Through the use of a continuous emission monitoring system (CEMS) installed, calibrated, operated and maintained in accordance with the quality assurance requirements of 40 CFR 75, adopted and incorporated by reference in Rule 62-204.800, F.A.C. A Relative Accuracy Test Audit (RATA) of the SO₂ CEMS shall be conducted no less than annually. Compliance shall be demonstrated based on a 3-hour rolling average.
 - b. In the event the CEMS becomes temporarily inoperable or interrupted, the fuels and the maximum fuel oil to natural gas firing ratio that shall be used is limited to that which was last used to demonstrate compliance prior to the loss of the CEMS, or the emissions units shall fuel switch and be fired with a fuel oil containing a maximum sulfur content of ~~2.5~~ 1.18 %, by weight, or less.
 - c. When burning 100% fuel oil, the emissions units shall be fired with a fuel oil containing a maximum sulfur content of ~~2.5~~ 1.18 %, by weight, or less.
- [Rules 62-213.440, 62-204.800 and 62-296.405(1)(c)3., F.A.C.]
- A.15. COMS for Periodic Monitoring.** The owner or operator has installed continuous opacity monitoring systems (COMS) pursuant to 40 CFR Part 75. The owner or operator shall maintain and operate COMS and shall make and maintain records of opacity measured by the COMS, for purposes of periodic monitoring. [Rule 62-213.440, F.A.C.; and applicant agreement with EPA on March 3, 1998]

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.}

SECTION III. EMISSIONS UNITS AND CONDITIONS.
FOSSIL FUEL STEAM GENERATORS, UNIT 3 AND UNIT 4.

A.16. Test Methods. Required tests shall be performed in accordance with the following reference methods.

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
<u>3A</u>	<u>Determination of Oxygen and Carbon Dioxide Concentrations in Emissions from Stationary Sources</u>
<u>5, 5B</u>	Method for Determining Particulate Matter Emissions (All PM is assumed to be PM ₁₀ .)
<u>6C</u>	<u>Determination of Sulfur Dioxide Emissions from Stationary Sources</u>
7E	Determination of Nitrogen Oxide Emissions from Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources
<u>17</u>	<u>Determination of Particulate Matter Emissions from Stationary Sources</u>
18	Measurement of Gaseous Organic Compound Emissions by Gas Chromatography
19	Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxides Emission Rates (Optional F-factor method may be used to determine flow rate and gas analysis to calculate mass emissions in lieu of Methods 1-4.)
20	Determination of Nitrogen Oxides, Sulfur Dioxide and Diluent Emissions from Stationary Gas Turbines
25A	Method for Determining Gaseous Organic Concentrations (Flame Ionization)

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rules 62-296.405, 62-297.401 and 62-213.440, F.A.C.]

A.17. Annual Tests Required. Except as provided in specific conditions **A.21** through **A.23**, emission testing for particulate matter emissions and visible emissions shall be performed annually, each federal fiscal year, except for units that are not operating because of scheduled maintenance outages and emergency repairs, which will be tested within thirty days of returning to service. [Rules 62-4.070(3) and 62-213.440, F.A.C.]

A.18. Compliance Tests Prior To Renewal. Prior to permit renewal, compliance tests shall be performed for the following pollutants: VE, PM, NO_x and SO₂. [Rule 62-297.310(7)(a)3., F.A.C.]

A.19. DEP Method 9. See Specific Condition **A.16**. 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.
- 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:
 - (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.
 - (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

SECTION III. EMISSIONS UNITS AND CONDITIONS.
FOSSIL FUEL STEAM GENERATORS, UNIT 3 AND UNIT 4.

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.20. Particulate Matter.** See Specific Condition **A.16**. The test methods for particulate emissions shall be EPA Methods 17, 5, 5B, or 5F, incorporated by reference in Chapter 62-297, F.A.C. The minimum sample volume shall be 30 dry standard cubic feet. EPA Method 5 may be used with filter temperature no more than 320 degrees Fahrenheit. For EPA Method 17, stack temperature shall be less than 375 degrees Fahrenheit. The owner or operator may use EPA Method 5 to demonstrate compliance. EPA Method 3 or 3A ~~with Orsat analysis~~ shall be used when the oxygen based F-factor, computed according to EPA Method 19, is used in lieu of heat input. Acetone wash shall be used with EPA Method 5 or 17. Particulate testing shall be conducted in accordance with the requirements of specific condition **A.23** of this permit. [Rules 62-213.440, 62-296.405(1)(e)2. and 62-297.401, F.A.C.]
- A.21. Sulfur Dioxide.** See Specific Condition **A.16**. The test methods for sulfur dioxide emissions shall be EPA Methods 6, 6A, 6B, or 6C, incorporated by reference in Chapter 62-297, F.A.C. If the emissions unit obtains an alternate procedure under the provisions of Rule 62-297.620, F.A.C., the procedure shall become a condition of the emissions unit's permit. The Department will retain the authority to require EPA Method 6 or 6C if it has reason to believe that exceedences of the sulfur dioxide emissions limiting standard are occurring. The permittee may use the EPA test methods, referenced above, to **demonstrate compliance using CEMS for sulfur dioxide**. See specific condition **A.14** of this permit. [Rules 62-213.440 and 62-296.405(1)(c)3. & (1)(e)3., F.A.C.]
- A.22. When VE Tests Not Required.** 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.]
- A.23. When PM Tests Not Required.** Annual and permit renewal compliance testing for particulate matter 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.
- [Rules 62-297.310(7)(a)3. & 5., F.A.C.; and ASP Number 97-B-01]
- A.24. Operating Conditions During Testing - PM and VE.** Compliance testing during soot blowing and steady-state operation for particulate matter and visible emissions shall be conducted at least once annually, if liquid fuel is fired for more than 400 hours. A visible emissions test shall be conducted during one run of each particulate matter test. ~~Testing shall be conducted as follows:~~
- a. ~~*When Burning Fuel Oil Up To 2.5% Sulfur.* When only fuel oil containing less than or equal to 2.5% sulfur, by weight, is fired (or co-fired with natural gas) in an emissions unit, particulate matter and visible emissions tests during soot blowing and steady-state operation shall be performed on such emissions unit while firing solely fuel oil containing at least 90% of the average sulfur content of the fuel oils fired in the previous 12 month period, except that such test shall not be required to be performed during any year that testing is performed in accordance with specific condition **A.24.b.**~~
 - b. ~~*When Burning Fuel Oil Greater Than 2.5% Sulfur.* If fuel oil containing greater than 2.5% sulfur, by weight, is co-fired with natural gas in an emissions unit, particulate matter and visible emissions tests during soot blowing and steady-state operation shall be performed as soon as practicable, but in no event~~

SECTION III. EMISSIONS UNITS AND CONDITIONS.
FOSSIL FUEL STEAM GENERATORS, UNIT 3 AND UNIT 4.

more than 60 days after firing such fuel oil, while co-firing such oil with the appropriate proportion of natural gas required to maintain SO₂ emissions between 90 to 100% of the SO₂ emission limit (corresponding to 2.475 and 2.75 lb/MMBtu heat input). Following successful completion of such PM and VE testing, further PM and VE testing shall not be required during the next 12 months unless fuel oil is fired that contains greater than 0.20% sulfur above the percentage sulfur concentration fired during the most recent co-firing test. If fuel oil is co-fired containing greater than 0.20% sulfur above the percentage sulfur concentration fired during the most recent co-firing test, additional PM and VE tests shall be performed as described above as soon as practicable, but in no event more than 60 days after firing such higher sulfur fuel oil.

[Rules 62-4.070(3), 62-213.440, 62-296.405(1)(c)3. and 62-297.310(7)(a), F.A.C.]

A.25. Testing While Injecting Additives. The owner or operator shall conduct emission tests while injecting additives consistent with normal operating practices. [Rule 62-213.440, F.A.C.; and applicant agreement with EPA on March 3, 1998]

A.26. 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.]

Recordkeeping and Reporting Requirements

{Permitting Note: See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.}

A.27. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Fuel Analysis Report	Monthly.	A.29.
Excess Emissions - Malfunctions	Quarterly.	A.30.

A.28. Fuel Records. The owner or operator shall create and maintain for each emission unit hourly records of the amount of each fuel fired, the ratio of fuel oil to natural gas if co-fired, and the heating value and sulfur content of each fuel fired. These records must be of sufficient detail to identify the testing requirements of specific condition **A.24**, and, when applicable, demonstrate compliance with the requirements of condition **A.14**, paragraphs **b** and **c**, of this permit. Fuel oil heating value and sulfur content shall be determined by taking a daily sample of the fuel fired, combining those samples into a monthly composite, and analyzing a representative sample of the composite. Analysis for sulfur content shall be performed using one of ASTM D2622-94, ASTM D4294-90(95), ASTM D1552-95, ASTM D1266-91, both ASTM D4057-88 and ASTM D129-95, or the latest edition(s). Comparison of the as-fired fuel oil sulfur content shall be made and recorded monthly upon receipt of each monthly composite analysis. [Rules 62-4.070(3), 62-213.410, 62-213.440 and 62-296.405(1)(c)3., F.A.C.]

A.29. Fuel Analyses Report. The owner or operator shall, by the fifteenth day of each month, submit to the Palm Beach County Health Department, Air Section, a report of fuel analyses that are representative of each fuel fired in the preceding month. The report shall document the heating value, the density or specific gravity, and the percent sulfur content by weight of each fuel fired. [Rule 62-4.070(3) and 62-213.440, F.A.C.; AO 50-206721 Specific Condition 3; and AO 50-206722 Specific Condition 3]

A.30. Excess Emissions - Reports. The permittee shall submit to the Palm Beach County Health Department, Air Section, a written report of emissions in excess of emission limiting standards as set forth in Rule 62-296.405(1), F.A.C., for each calendar quarter. The nature and cause of the excess emissions shall be

SECTION III. EMISSIONS UNITS AND CONDITIONS:
FOSSIL FUEL STEAM GENERATORS, UNIT 3 AND UNIT 4.

explained. This report does not relieve the owner or operator of the legal liability for violations. All recorded data shall be maintained on file at the facility by the permittee for a period of five years. [Rules 62-213.440 and 62-296.405(1)(g), F.A.C.]

Other Requirements

A.31. Used Oil. Burning of on-specification used oil is allowed at this facility in accordance with all other conditions of this permit and the following additional conditions:

- a. *On-specification Used Oil Allowed as Fuel.* This permit allows the burning of used oil fuel meeting EPA "on-specification" used oil specifications, with a polychlorinated biphenyls (PCB) concentration of less than 50 ppm, originating from Florida Power and Light Company operations. Used oil that does not meet the specifications for on-specification used oil shall not be burned at this facility.

On-specification used oil shall meet the following specifications:

- Arsenic shall not exceed 5.0 ppm;
- Cadmium shall not exceed 2.0 ppm;
- Chromium shall not exceed 10.0 ppm;
- Lead shall not exceed 100.0 ppm;
- Total halogens shall not exceed 1000 ppm;
- Flash point shall not be less than 100 degrees F.

[40 CFR 279, Subpart B.]

- b. *Quantity Limited.* The maximum total quantity of used oil that may be burned in both emissions units is 1.5 million gallons in any consecutive 12-month period.
- c. *Used Oil Containing PCBs Not Allowed.* Used oil containing a PCB concentration of 50 or more ppm shall not be burned at this facility. Used oil shall not be blended to meet this requirement.
- d. *PCB Concentration of 2 to less than 50 ppm.* On-specification used oil with a PCB concentration of 2 to less than 50 ppm shall be burned only at normal source operating temperatures. On-specification used oil with a PCB concentration of 2 to less than 50 ppm shall not be burned during periods of startup or shutdown.
- e. *Testing Required.* The owner or operator shall sample and analyze each batch of used oil to be burned for the following parameters:
- Arsenic, cadmium, chromium, lead, total halogens, flash point, and PCB.
- Testing (sampling, extraction and analysis) shall be performed using approved methods specified in EPA Publication SW-846 (Test Methods for Evaluating Solid Waste, Physical/Chemical Methods), or latest edition.
- f. *Record Keeping Required.* The owner or operator shall obtain, make and keep the following records related to the use of used oil in a form suitable for inspection at the facility by the Department: [40 CFR 279.61 and 761.20(e)]
- (1) The gallons of on-specification used oil received and burned each month. (This record shall be completed no later than the fifteenth day of the succeeding month.)
 - (2) The total gallons of on-specification used oil burned in the preceding consecutive 12-month period. (This record shall be completed no later than the fifteenth day of the succeeding month.)
 - (3) Results of the analyses required above.
- g. *Reporting Required.* The owner or operator shall submit, with the Annual Operation Report form, the analytical results and the total amount of on-specification used oil burned during the previous calendar year.

[Rules 62-4.070(3) and 62-213.440, F.A.C.; and, 40 CFR 279 and 40 CFR 761, unless otherwise noted]

SECTION III. EMISSIONS UNITS AND CONDITIONS.
FOSSIL FUEL STEAM GENERATORS, UNIT 3 AND UNIT 4.

- A.32. Burning of Expired Fuel Oil Samples.** The burning of bottles made from high density polyethylene (HDPE) containing expired fuel oil samples from FPL facilities that were retained after analysis by FPL's Central Laboratory shall be permitted under the following conditions:
- a. The total annual amount of expired fuel oil samples burned shall not exceed 2.0 barrels of fuel oil.
 - b. The total annual amount of HDPE shall not exceed 80 pounds.
 - c. The owner or operator shall submit, with the Annual Operation Report form, the total amount of expired fuel oil samples and HDPE burned during the previous calendar year.
- [Rule 62-4.070(3), F.A.C.; AO 50-206721; AO 50-206722; and applicant request in Title V air operation permit application received June 12, 1996]

SECTION IV. ACID RAIN PART.
ACID RAIN, PHASE II.

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

Operated by: Florida Power and Light Company
ORIS Code: 0619

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

E.U.

<u>ID No.</u>	<u>Brief Description</u>
003	Fossil Fuel Steam Generator, Unit 3
004	Fossil Fuel Steam Generator, Unit 4

A.1. Application. The Phase II Acid Rain Part application submitted for this facility, as approved by the Department, is a part of this permit. The owners and operators of these Phase II acid rain units must comply with the standard requirements and special provisions set forth in the application listed below:
a. DEP Form No. 62-210.900(1)(a), dated 06/10/08, received 06/26/08.
[Chapter 62-213, F.A.C. and Rule 62-214.320, F.A.C.]

A.2. Allowance Allocations. Sulfur dioxide (SO₂) allowance allocations for each Acid Rain unit are as follows:

E.U. ID No.	EPA ID	Year	2009	2010	2011	2012	2013
003	PRV3	SO ₂ allowances, under Table 2 of 40 CFR 73	3573*	3580*	3580*	3580*	3580*
004	PRV4	SO ₂ allowances, under Table 2 of 40 CFR 73	3545*	3551*	3551*	3551*	3551*

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

A.3. Emission Allowances. Emissions from sources subject to the Federal Acid Rain Program (Title IV) shall not exceed any allowances that the source lawfully holds under the Federal Acid Rain Program. Allowances shall not be used to demonstrate compliance with a non-Title IV applicable requirement of the Act.
a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the Federal Acid Rain Program, provided that such increases do not require a permit revision pursuant to Rule 62-213.400(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.4. Other Considerations. Comments, notes, and justifications: None.

**SECTION IV. ACID RAIN PART.
ACID RAIN, PHASE II.**

Acid Rain Part Application

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

This submission is: Now Revised Renewal

STEP 1

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

Plant name Riviera	State Florida	0619 ORIS/Plant Code
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STEP 2

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

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

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

a	b	c	d	e
Unit ID#	SO ₂ Opt-in Unit? (Yes or No)	Unit will hold allowances in accordance with 40 CFR 72.9(c)(1)	New or SO ₂ Opt-in Units Commence Operation Date	New or SO ₂ Opt-in Units Monitor Certification Deadline
PRV2	NO	Yes	N/A	N/A
PRV3	NO	Yes	N/A	N/A
PRV4	NO	Yes	N/A	N/A
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		

SECTION IV. ACID RAIN PART.
ACID RAIN, PHASE II.

Plant Name (from STEP 1) Riviera

STEP 3

**Read the
standard
requirements.**

Acid Rain Part Requirements.

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

Monitoring Requirements.

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

Sulfur Dioxide Requirements.

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

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

Excess Emissions Requirements.

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

Recordkeeping and Reporting Requirements.

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

**SECTION IV. ACID RAIN PART.
ACID RAIN, PHASE II.**

Plant Name (from STEP 1) Riviera

**STEP 3,
Continued.**

Recordkeeping and Reporting Requirements (cont)

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

Liability

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

Effect on Other Authorities

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

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

**STEP 4
For SO₂ Opt-in
units only.**

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

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

In column "h" enter the hours.

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

**SECTION IV. ACID RAIN PART.
ACID RAIN, PHASE II.**

Plant Name (from STEP 1) Riviera

STEP 5

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

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

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

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

STEP 6

For SO₂ Opt-in units only.

Attach additional requirements, certify and sign.

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

Signature  Date 6/10/08

STEP 7

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 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 Sheila M Wilkinson Title PGD Technical Services General Manager

Owner Company Name Florida Power & Light

Phone 561-691-2287 E-mail address Sheila.M.Wilkinson@fpl.com

Signature  Date 6/10/08

SECTION IV. ACID RAIN PART.

ACID RAIN, PHASE II.

Subsection B. This Subsection addresses Acid Rain, Phase II, Retired Unit Exemption.

The emissions unit listed below is regulated under Phase II of the federal Acid Rain Program.

E.U. ID No.	Description
002	Fossil Fuel Fired Steam Generator, Unit 2 - PERMANENTLY RETIRED

B.1. The Retired Unit Exemption form submitted for this facility constitutes the Acid Rain Part application pursuant to 40 CFR 72.8 and is a part of this permit. The owners and operators of this acid rain unit shall comply with the standard requirements and special provisions set forth in DEP Form No. 62- 210.900(1)(d), effective March 16, 2008, signed by the Designated Representative on June 16, 2008, and received by the Department on August 8, 2008. This unit is subject to the following: 40 CFR 72.1 which requires the unit to have an Acid Rain Part as part of its Title V air operation permit; 40 CFR 72.2 which provides associated definitions; 40 CFR 72.3 which provides measurements, abbreviations, and acronyms; 40 CFR 72.4 which provides the federal authority of the Administrator; 40 CFR 72.5 which provides the authority of the states; 40 CFR 72.6 which makes the boiler a Phase II unit; 40 CFR 72.10 which gives the public access to information about this unit; and, 40 CFR 72.13 which incorporates certain ASTM methods into 40 CFR Part 72. [Chapter 62-213, F.A.C. and Rule 62-214.340, F.A.C.]

B.2. Sulfur dioxide (SO₂) allowance allocations for the Acid Rain unit are as follows:

E.U. ID No.	EPA ID	Year	2009	2010	2011	2012	2013
002	PRV2	SO ₂ allowances, under Table 2 of 40 CFR 73	94*	94*	94*	94*	94*

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

B.3. Emission Allowances. Emissions from sources subject to the Federal Acid Rain Program (Title IV) shall not exceed any allowances that the source lawfully holds under the Federal Acid Rain Program. Allowances shall not be used to demonstrate compliance with a non-Title IV applicable requirement of the Act.

- No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the Federal Acid Rain Program, provided that such increases do not require a permit revision pursuant to Rule 62-213.440(3), F.A.C.
- No limit shall be placed on the number of allowances held by the source under the Federal Acid Rain program.
- Allowances shall be accounted for under the Federal Acid Rain Program.

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

B.4. The designated representative of this acid rain unit applied for an exemption from the requirements of the Federal Acid Rain Program by submitting a completed and signed "Retired Unit Exemption" form (DEP Form No. 62-210.900(1)(d), F.A.C., attached) to the Department. The date of permanent retirement is January 1, 1992. [Rule 62-214.340(2), F.A.C.; and, 40 CFR 72.8.]

B.5. Statement of Compliance. The annual statement of compliance pursuant to Rule 62-213.440(3), F.A.C., shall be submitted within 60 (sixty) days after the end of the calendar year. {See Appendix TV, Title V Conditions.} [Rule 62-214.420(11), F.A.C.]

SECTION IV. ACID RAIN PART.

ACID RAIN, PHASE II.

B.6. Where an applicable requirement of the Act is more stringent than applicable regulations promulgated under Title IV of the Act, both provisions shall be incorporated into the permit and shall be enforceable by the Administrator. [40 CFR 70.6(a)(1)(ii); and, Rule 62-210.200, F.A.C., Definitions – Applicable Requirements.]

B.7. Comments, notes, and justifications: None.

**SECTION IV. ACID RAIN PART.
ACID RAIN, PHASE II.**

Acid Rain, CAIR, and Hg Budget Retired Unit Exemption

For more information, see instructions and refer to 40 CFR 72.B, 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: New Revised

STEP 1

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

Plant Name Riviera	Florida State	617 ORIS/Plant Code	PRV2 Unit ID#
-----------------------	------------------	------------------------	------------------

Applicable Program(s): - Acid Rain - CAIR NO_x Annual - CAIR SO₂ - CAIR NO_x Ozone Season
- Mercury (Hg) Budget Trading

STEP 2

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

12/01/1991

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, 1992

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 62-214, 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.

DEP Form No. 62-214.900(1)(9) - Form
Effective: 07/00

SECTION IV. ACID RAIN PART.
ACID RAIN, PHASE II.

Plant Name from STEP 1: Riviera

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 SO₂ 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 a 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 time 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 60.4175, 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.

**SECTION IV. ACID RAIN PART.
ACID RAIN, PHASE II.**

Plant Name (from STEP 1) Riviera

**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: Sheela M. Wilkinson	Title: PG&L Technical Services General Manager
Owner Company Name: Florida Power & Light	
Phone: 561-691-2287	Email: Sheela_m_wilkinson@fpl.com
Signature: 	Date: 6/18/08

SECTION V. APPENDICES.

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

Appendix A, Glossary.

Appendix ASP, ASP Number 97-B-01 (With Scrivener's Order Dated July 9, 1997).

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

Appendix O, Order Granting Petition for Reduced Frequency of Particulate Testing.

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.

Friday, Barbara

To: Jeff_Smith@fpl.com
Cc: Sheila_Wilkinson@fpl.com; 'KKosky@Golder.com'; Forney.Kathleen@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; 'James_Stormer@doh.state.fl.us'; Gibson, Victoria; Cascio, Tom; Holtom, Jonathan
Subject: FP&L / RIVIERA POWER PLANT; 0990042-004-AV
Attachments: 0990042004ProposedCoverLetter.pdf; Proposed Determination 2008 1-5-09 (2).PDF

Dear Sir/ Madam:

Attached is the official **Proposed Permit 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).

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

http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0990042.004.AV.P_pdf.zip

Attention: Tom Cascio

Owner/Company Name: FLORIDA POWER and LIGHT (PRV)

Facility Name: FPandL / RIVIERA POWER PLANT

Project Number: 0990042-004-AV

Permit Status: PROPOSED

Permit Activity: PERMIT RENEWAL

Facility County: PALM BEACH

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Access these documents by clicking on the link provided above, or search for other project documents using the "*Air Permit Documents Search*" website at <http://www.dep.state.fl.us/air/eproducts/apds/default.asp>.

Permit project documents addressed in this email may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible, and verify that they are accessible. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record. If you have any problems opening the documents or would like further information, please contact the Florida Department of Environmental Protection, Bureau of Air Regulation at (850)488-0114.

Barbara Friday

Bureau of Air Regulation

Division of Air Resource Management (DARM)

(850)921-9524

Friday, Barbara

From: Exchange Administrator
Sent: Monday, January 05, 2009 1:52 PM
To: Friday, Barbara
Subject: Delivery Status Notification (Relay)
Attachments: ATT353275.txt; FP&L / RIVIERA POWER PLANT; 0990042-004-AV

This is an automatically generated Delivery Status Notification.

Your message has been successfully relayed to the following recipients, but the requested delivery status notifications may not be generated by the destination.

Jeff.Smith@fpl.com

Sheila.Wilkinson@fpl.com

Friday, Barbara

From: Smith, Jeff [Jeff.Smith@fpl.com]
To: Friday, Barbara
Sent: Monday, January 05, 2009 1:53 PM
Subject: Read: FP&L / RIVIERA POWER PLANT; 0990042-004-AV

Your message

To: Jeff.Smith@fpl.com
Subject:

was read on 1/5/2009 1:53 PM.

Friday, Barbara

From: Smith, Jeff [Jeff.Smith@fpl.com]
Sent: Monday, January 05, 2009 4:47 PM
To: Friday, Barbara
Cc: KKosky@Golder.com; Sheila_Wilkinson@fpl.com; James_Stormer@doh.state.fl.us; Forney.Kathleen@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; Gibson, Victoria; Cascio, Tom; Holtom, Jonathan
Subject: RE: FP&L / RIVIERA POWER PLANT; 0990042-004-AV

Barbara,

Thank you. I have access to the attached files.

Jeff Smith
Plant General Manager
Riviera Plant
Port Everglades Plant
Gas Turbine Power Park

Office 954-527-3601
Mobile 561-307-7188
jeff.smith@fpl.com

NOTICE: This e-mail and attachments transmitted with it may contain privileged and confidential information that is solely for the use of the named addressee. If you are not the intended recipient, you are hereby notified that any review, dissemination, distribution or other use of this message or its contents and attachments are prohibited. If you received this e-mail in error, please notify the sender by reply e-mail and delete this message and destroy copies or back ups thereof. Thank you for your assistance.

From: Friday, Barbara [mailto:Barbara.Friday@dep.state.fl.us]
Sent: Monday, January 05, 2009 2:52 PM
To: Smith, Jeff
Cc: KKosky@Golder.com; Sheila_Wilkinson@fpl.com; James_Stormer@doh.state.fl.us; Forney.Kathleen@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; Gibson, Victoria; Cascio, Tom; Holtom, Jonathan
Subject: FP&L / RIVIERA POWER PLANT; 0990042-004-AV

Dear Sir/ Madam:

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

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

http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0990042.004.AV.F_pdf.zip

Attention: Tom Cascio

Owner/Company Name: FLORIDA POWER and LIGHT (PRV)
Facility Name: FP&L / RIVIERA POWER PLANT
Project Number: 0990042-004-AV
Permit Status: FINAL
Permit Activity: PERMIT RENEWAL
Facility County: PALM BEACH

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Access these documents by clicking on the link provided above, or search for other project documents using the "*Air Permit Documents Search*" website at <http://www.dep.state.fl.us/air/eproducts/apds/default.asp> .

Permit project documents are addressed in this email may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible, and verify that they are accessible. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record. If you have any problems opening the documents or would like further information, please contact the Florida Department of Environmental Protection, Bureau of Air Regulation at (850)488-0114.

Barbara Friday

Bureau of Air Regulation

Division of Air Resource Management (DARM)

(850)921-9524

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

Friday, Barbara

From: Wilkinson, Sheila M [Sheila.M.Wilkinson@fpl.com]
To: Friday, Barbara
Sent: Monday, January 05, 2009 4:16 PM
Subject: Read: FP&L / RIVIERA POWER PLANT; 0990042-004-AV

Your message

To: Sheila.M.Wilkinson@fpl.com
Subject:

was read on 1/5/2009 4:16 PM.

Friday, Barbara

From: Mail Delivery System [MAILER-DAEMON@mx1.golder.com]
Sent: Monday, January 05, 2009 1:52 PM
To: Friday, Barbara
Subject: Successful Mail Delivery Report
Attachments: Delivery report; Message Headers

This is the mail system at host mx1.golder.com.

Your message was successfully delivered to the destination(s) listed below. If the message was delivered to mailbox you will receive no further notifications. Otherwise you may still receive notifications of mail delivery errors from other systems.

The mail system

<KKosky@Golder.com>: delivery via 127.0.0.1[127.0.0.1]:10025: 250 OK, sent
496256D4_31814_6203_1 3642A1CF0B78

Friday, Barbara

From: Mail Delivery System [MAILER-DAEMON@mseive01.rtp.epa.gov]
Sent: Monday, January 05, 2009 1:53 PM
To: Friday, Barbara
Subject: Successful Mail Delivery Report
Attachments: Delivery report; Message Headers

This is the mail system at host mseive01.rtp.epa.gov.

Your message was successfully delivered to the destination(s) listed below. If the message was delivered to mailbox you will receive no further notifications. Otherwise you may still receive notifications of mail delivery errors from other systems.

The mail system

<Forney.Kathleen@epamail.epa.gov>: delivery via 127.0.0.1[127.0.0.1]:10025: 250 OK, sent 49625705_12429_331189_1 D0AE84447C

<Oquendo.Ana@epamail.epa.gov>: delivery via 127.0.0.1[127.0.0.1]:10025: 250 OK, sent 49625705_12429_331189_1 D0AE84447C

Friday, Barbara

From: Exchange Administrator
Sent: Monday, January 05, 2009 1:52 PM
To: Friday, Barbara
Subject: Delivery Status Notification (Relay)
Attachments: ATT353285.txt; FP&L / RIVIERA POWER PLANT; 0990042-004-AV

This is an automatically generated Delivery Status Notification.

Your message has been successfully relayed to the following recipients, but the requested delivery status notifications may not be generated by the destination.

James.Stormer@doh.state.fl.us

Friday, Barbara

From: James_Stormer@doh.state.fl.us
To: Friday, Barbara
Sent: Monday, January 05, 2009 1:53 PM
Subject: Read: FP&L / RIVIERA POWER PLANT; 0990042-004-AV

Your message

To: James Stormer@doh.state.fl.us
Subject:

was read on 1/5/2009 1:53 PM.

Friday, Barbara

From: System Administrator
To: Gibson, Victoria; Cascio, Tom
Sent: Monday, January 05, 2009 1:52 PM
Subject: Delivered:FP&L / RIVIERA POWER PLANT; 0990042-004-AV

Your message

To: Jeff_Smith@fpl.com
Cc: Sheila_Wilkinson@fpl.com; 'KKosky@Golder.com'; Forney.Kathleen@epamail.epa.gov;
Oguendo.Ana@epamail.epa.gov; 'James_Stormer@doh.state.fl.us'; Gibson, Victoria;
Cascio, Tom; Holtom, Jonathan
Subject: FP&L / RIVIERA POWER PLANT; 0990042-004-AV
Sent: 1/5/2009 1:52 PM

was delivered to the following recipient(s):

Gibson, Victoria on 1/5/2009 1:52 PM
Cascio, Tom on 1/5/2009 1:52 PM

Friday, Barbara

From: Cascio, Tom
To: Friday, Barbara
Sent: Monday, January 05, 2009 1:56 PM
Subject: Read: FP&L / RIVIERA POWER PLANT; 0990042-004-AV

Your message

To: Jeff_Smith@fpl.com
Cc: Sheila_Wilkinson@fpl.com; 'KKosky@Golder.com'; Forney.Kathleen@epamail.epa.gov;
Oquendo.Ana@epamail.epa.gov; 'James_Stormer@doh.state.fl.us'; Gibson, Victoria;
Cascio, Tom; Holtom, Jonathan
Subject: FP&L / RIVIERA POWER PLANT; 0990042-004-AV
Sent: 1/5/2009 1:52 PM

was read on 1/5/2009 1:56 PM.

Friday, Barbara

From: System Administrator
To: Holtom, Jonathan
Sent: Monday, January 05, 2009 1:52 PM
Subject: Delivered:FP&L / RIVIERA POWER PLANT; 0990042-004-AV

Your message

To: Jeff_Smith@fpl.com
Cc: Sheila_Wilkinson@fpl.com; 'KKosky@Golder.com'; Forney.Kathleen@epamail.epa.gov;
Oquendo.Ana@epamail.epa.gov; 'James_Stormer@doh.state.fl.us'; Gibson, Victoria;
Cascio, Tom; Holtom, Jonathan
Subject: FP&L / RIVIERA POWER PLANT; 0990042-004-AV
Sent: 1/5/2009 1:52 PM

was delivered to the following recipient(s):

Holtom, Jonathan on 1/5/2009 1:52 PM

Friday, Barbara

From: Holtom, Jonathan
To: Friday, Barbara
Sent: Monday, January 05, 2009 1:52 PM
Subject: Read: FP&L / RIVIERA POWER PLANT; 0990042-004-AV

Your message

To: Jeff_Smith@fpl.com
Cc: Sheila_Wilkinson@fpl.com; 'KKosky@Golder.com'; Forney.Kathleen@epamail.epa.gov;
Oquendo.Ana@epamail.epa.gov; 'James_Stormer@doh.state.fl.us'; Gibson, Victoria;
Cascio, Tom; Holtom, Jonathan
Subject: FP&L / RIVIERA POWER PLANT; 0990042-004-AV
Sent: 1/5/2009 1:52 PM

was read on 1/5/2009 1:52 PM.