


**Florida's FINAL Permit Electronic Notification Cover Memorandum**

**TO:** Gracy Danois, U.S. EPA Region 4  
**CC:** Jeananne Gettle, U.S. EPA Region 4  
**THRU:** Scott M. Sheplak, P.E., Bureau of Air Regulation  
**FROM:** Edward J. Svec, Permit Engineer   
**DATE:** 12/18/2003  
**RE:** U.S. EPA Region 4 FINAL Title V Operation Permit Renewal Review

The following FINAL Title V operation permit(s) renewal and associated documents have been posted on the DEP World Wide Web Internet site. Any comments resulting from your review of the PROPOSED permit have been incorporated into this FINAL permit as requested. This message is only a courtesy to let you know that the subject permit is now FINAL and has been issued to the applicant.

<u>Applicant Name</u>	<u>County</u>	<u>Method of Transmittal</u>	<u>Electronic File Name(s)</u>
Florida Power & Light Riviera Plant	Palm Beach	INTERNET	0990042-003-AVf.zip


This zipped file contains the following electronic files:

sob.doc  
0990042f.doc  
09900421.xls  
09900422.xls  
0990042g.doc  
0990042u.doc  
0990042h.doc

# Memorandum

# Florida Department of Environmental Protection

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TO: Michael G. Cooke  
FROM: Trina L. Vielhauer   
DATE: December 15, 2003  
SUBJECT: FINAL Permit No.: 0990042-003-AV  
Florida Power & Light Company  
Riviera Plant

This permit is a Title V Air Operation Permit renewal for the subject facility.

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 FPL operations, and expired fuel oil samples from FPL'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 NOx burners and Research-Cottrell multiple cyclones with ash re-injection, with a General Electric 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.

Based on the Title V Air Operation Permit Renewal application received July 3, 2003, this facility is a major source of hazardous air pollutants (HAPs).

Comments were received on the DRAFT permit from sixteen respondents, as a result of a public meeting held in West Palm Beach on September 23, 2003 at the request of the permittee. All of the comments were addressed and there was no additional response from either the permittee or the respondents.

Comments were received from Region 4, U.S. EPA regarding the PROPOSED permit. All of the comments were addressed.

I recommend your signature.

Attachment

TV/es

NOTICE OF FINAL PERMIT

In the Matter of an  
Application for Permit by:

Mr. Rick Blomgren  
Florida Power & Light Company Riviera Plant  
200-300 Broadway  
Riviera Beach, Florida 33408

FINAL Permit No.: 0990042-003-AV  
Riviera Plant

Enclosed is FINAL Permit Number 0990042-003-AV for the operation of the Riviera Plant located at 200-300 Broadway, Riviera Beach, Palm Beach County, issued pursuant to Chapter 403, Florida Statutes (F.S.).

Any party to this order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the permitting authority in the Legal Office; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 (thirty) days from the date this Notice is filed with the Clerk of the permitting authority.

Executed in Tallahassee, Florida.

  
Trina L. Vielhauer, Chief  
Bureau of Air Regulation

**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF FINAL PERMIT (including the FINAL permit) was sent by certified mail and copies were mailed by U.S. Mail before the close of business on 12/19/03 to the person(s) listed or as otherwise noted:

Rick Blomgren, Responsible Official, Florida Power & Light Company Riviera Plant \*

Clerk Stamp

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

Barbara J. Friday 12/19/03  
(Clerk) (Date)

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF FINAL PERMIT was sent by ~~U.S. Mail~~ <sup>E-Mail</sup> before the close of business on 12/19/03 to the person(s) listed or as otherwise noted:

Kennard Kosky, P.E., Golder Associates Inc.  
James Stormer, PBCHD  
USEPA, Region 4 (INTERNET E-mail Memorandum)

Clerk Stamp

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

Barbara J. Friday 12/19/03  
(Clerk) (Date)

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:  
 Mr. Rick Blongren  
 Florida Power & Light Company  
 Riviera Plant  
 200-300 Broadway  
 Riviera Beach, Florida 33408

2. Article Number  
 (Transfer from service label) 7001 1140 0002 1577 9885

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 X *[Signature]*  Agent  Addressee

B. Received by (Printed Name) \_\_\_\_\_ C. Date of Delivery 12-23-03

D. Is delivery address different from item 1?  Yes  
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 Insured Mail  C.O.D.

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7001 1140 0002 1577 9885

**OFFICIAL USE**  
 Mr. Rick Blongren

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**Sent To**  
 Mr. Rick Blongren  
 Street, Apt. No.;  
 or PO Box No. 200-300 Broadway  
 City, State, ZIP+4  
 Riviera Beach, Florida 33408

## **FINAL PERMIT DETERMINATION**

FINAL Permit No.: 0990042-003-AV

Page 1 of 1

### **I. Comment(s).**

Comments were received on the PROPOSED Title V Permit from USEPA. One comment identified missing SIP language for the DEP Method 9 test methodology. The permit was changed and the language was added at Specific Condition A.21., previously identified as a reserved condition.

### **II. Conclusion.**

In conclusion, the changes that have been made are insignificant in nature and do not impose additional public noticing requirements. The permitting authority hereby issues the FINAL Permit, with any changes noted above.

## STATEMENT OF BASIS

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

Title V Air Operation Permit Renewal  
FINAL Permit Project No.: 0990042-003-AV

This Title V Air Operation Permit Renewal 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 drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

The subject of this permit is for the renewal of Title V Air Operation Permit and the incorporation of an Administrative Correction, No. 0990042-002-AV, issued on January 11, 2002.

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 FPL operations, and expired fuel oil samples from FPL'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 NOx burners and Research-Cottrell multiple cyclones with ash re-injection, with a General Electric steam turbine that drives an oil and hydrogen-cooled 300 MW class generator with capability of 315 MW. CAM does not apply.

The Department has determined that the appropriate particulate testing frequency for the fossil fuel steam generators is annually whenever fuel oil is used for more than 400 hours in the preceding year. This frequency is justified by the low emission rate documented in previous emissions tests while firing fuel oil. These units are subject to a steady-state PM emission limit of 0.1 lb/MMBtu, and 0.3 lb/MMBtu for soot blowing. FPL has presented historical PM test results which show that the steady-state average results are less than 0.075 lb/MMBtu. The Department has determined that sources with steady-state emissions less than 0.075 lb/MMBtu shall test annually. A summary of results of particulate emission testing in lb/MMBtu for the units at Riviera are 0.063 (steady-state) and 0.079 (soot-blowing).

FPL may inject additives such as magnesium oxide, magnesium hydroxide and related compounds into each boiler for the purposes of reducing build-up of particulate matter on the interior boiler surfaces, to facilitate proper heat transfer and other boiler operation, and to reduce the particulate matter required to be removed from boiler surfaces during soot blowing and other boiler cleaning operations. The rate of additive injection is not large, generally on the order of 1 gallon of additive per approximately 2,500 ( $\pm$  500) gallons of fuel oil (this is approximately 0.04% by volume). The permit requires that emission tests be conducted while injecting additives consistent with normal operating practices.

This facility is allowed to co-fire natural gas with fuel oil in any ratio that will cause emissions to not exceed the sulfur dioxide limitation of this permit. The permit specifies that compliance with the sulfur dioxide standard shall be based on the total heat input from all liquid and gaseous fuels burned. The permit also requires that the sulfur dioxide emission limitation shall apply at all times including startup, shutdown, and load change. However, excess emissions of sulfur dioxide are allowed during malfunctions in accordance with the excess emissions conditions of this permit, which are based on Rule 62-210.700, F.A.C. Malfunctions that could occur and affect sulfur dioxide emissions include unexpected loss of natural gas supply at the plant, failure of the fuel feed system or burner failure.

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

Based on the Title V Air Operation Permit Renewal application received July 3, 2003, this facility is a major source of hazardous air pollutants (HAPs).



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

**Title V Air Operation Permit Renewal**

**FINAL Permit Project No.: 0990042-003-AV**

Permitting Authority:

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

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

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

Compliance Authority:

Palm Beach County Health Department  
Air Section  
901 Evernia Street  
PO Box 29  
West Palm Beach, FL 33401  
Phone: 561/355-3070  
Fax: 561/355-2442

# Title V Air Operation Permit Renewal

FINAL Permit No.: 0990042-003-AV

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Jeb Bush  
Governor

# Department of Environmental Protection

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

David B. Struhs  
Secretary

**Permittee:**  
Florida Power & Light Company  
Riviera Plant  
200-300 Broadway,  
Riviera Beach, Florida 33404

**FINAL Permit No.:** 0990042-003-AV  
**Facility ID No.:** 0990042  
**SIC No(s):** 49, 4911  
**Project:** Title V Air Operation Permit Renewal

The purpose of this permit is to renew the Title V Air Operation Permit and incorporate an Administrative Correction, No. 0990042-002-AV, issued on January 11, 2002. This existing facility is located at 200-300 Broadway, Riviera Beach, Palm Beach County; UTM Coordinates: Zone 17, 594.249 km East and 2960.632 km North; Latitude: 26° 45' 55" North and Longitude: 80° 03' 09" West.

This Title V Air Operation Permit Renewal 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 drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

**Referenced attachments made a part of this permit:**

Appendix U-1, List of Unregulated Emissions Units and/or Activities  
Appendix I-1, List of Insignificant Emissions Units and/or Activities  
APPENDIX TV-4, TITLE V CONDITIONS version dated 02/12/02  
APPENDIX SS-1, STACK SAMPLING FACILITIES version dated 10/07/96  
TABLE 297.310-1, CALIBRATION SCHEDULE version dated 10/07/96  
Alternate Sampling Procedure: ASP Number 97-B-01  
Order Granting Petition for Reduced Frequency of Particulate Testing

**Effective Date:** January 1, 2004  
**Renewal Application Due Date:** July 5, 2008  
**Expiration Date:** December 31, 2008

Michael G. Cooke, Director  
Division of Air Resource  
Management

MGC/sms/es

"More Protection, Less Process"

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**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 FPL operations, and expired fuel oil samples from FPL'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 NOx burners and Research-Cottrell multiple cyclones with ash re-injection, with a General Electric 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.

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

Based on the Title V Air Operation Permit Renewal application received July 3, 2003, this facility is a major source of hazardous air pollutants (HAPs).

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

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

**Unregulated Emissions Units and/or Activities**

-005	Painting and solvent cleaning
-006	Emergency diesel generator, and mobile equipment and engines

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

**Subsection C. Relevant Documents.**

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

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

Table 1-1: Summary of Air Pollutant Standards and Terms

Table 2-1: Summary of Compliance Requirements

Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers

Appendix H-1, Permit History

Statement of Basis

These documents are on file with the permitting authority:

Initial Title V Air Operation Permit effective January 1, 1999

Title V Air Operation Permit Administrative Correction issued January 11, 2002

Application for a Title V Air Operation Permit Renewal received July 3, 2003

Documents on file with USEPA

The Responsible Official has certified that the Risk Management Plan was submitted to the RMP Reporting Center.

## Section II. Facility-wide Conditions.

### The following conditions apply facility-wide:

1. APPENDIX TV-4, TITLE V CONDITIONS, is a part of this permit.  
{Permitting note: APPENDIX TV-4, TITLE V CONDITIONS, is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided a copy when requested or otherwise appropriate.}
2. [Not federally enforceable.] General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. No person shall cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.  
[Rule 62-296.320(2), F.A.C.]
3. General Particulate Emission Limiting Standards. General Visible Emissions Standard. Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C.  
[Rules 62-296.320(4)(b)1. & 4., F.A.C.]
4. 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.

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

Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to:

RMP Reporting Center  
Post Office Box 3346  
Merrifield, VA 22116-3346  
Telephone: 703/816-4434

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: 1/800/424-8802

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.]

5. Unregulated Emissions Units and/or Activities. Appendix U-1, List of Unregulated Emissions Units and/or Activities, is a part of this permit.

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

6. Insignificant Emissions Units and/or Activities. Appendix I-1, List of Insignificant Emissions Units and/or Activities, is a part of this permit.

[Rules 62-213.440(1), 62-213.430(6) and 62-4.040(1)(b), F.A.C.]

7. General Pollutant Emission Limiting Standards. Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds (VOC) or organic solvents (OS) without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department.

The following requirements are "not federally enforceable":

- a. Tightly cover or close all VOC or OS containers when they are not in use.
- b. Tightly cover all open tanks which contain VOC or OS when they are not in use.
- c. Maintain all pipes, valves, fittings, etc., which handle VOC or OS in good operating condition.
- d. Immediately confine and clean up VOC or OS spills and make sure wastes are placed in closed containers for reuse, recycling or proper disposal.

[Rule 62-296.320(1)(a), F.A.C.; and, proposed by the applicant in the initial Title V permit application received June 12, 1996]

8. Emissions of Unconfined Particulate Matter. Pursuant to Rules 62-296.320(4)(c)1., 3. & 4., F.A.C., reasonable precautions to prevent emissions of unconfined particulate matter at this facility include the following requirements (see Condition 57. of APPENDIX TV-4, TITLE V CONDITIONS):

The following requirements are "not federally enforceable":

- a. Paving of roads, parking areas, and equipment yards;
- b. Landscaping and planting vegetation;

- c. 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;
- d. Maintenance of paved roads as needed;
- e. Regular mowing of grass and care of vegetation;
- f. Limiting access to plant property by unnecessary vehicles;
- g. 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,
- h. Vehicles are restricted to slow speeds on the plant site.

[Rule 62-296.320(4)(c)2., F.A.C.; and, proposed by the applicant in the renewal Title V permit application received July 3, 2003]

9. When appropriate, any recording, monitoring, or reporting requirements that are time-specific shall be in accordance with the effective date of the permit, which defines day one.  
[Rule 62-213.440, F.A.C.]

10. Statement of Compliance. The annual statement of compliance pursuant to Rule 62-213.440(3)(a)2., F.A.C., shall be submitted to the Department and EPA within 60 (sixty) days after the end of the calendar year using DEP Form No. 62-213.900(7), F.A.C.  
[Rules 62-213.440(3) and 62-213.900, F.A.C.]

{Permitting Note: This condition implements the requirements of Rules 62-213.440(3)(a)2. & 3., F.A.C. (see Condition 51. of APPENDIX TV-4, TITLE V CONDITIONS)}

11. The permittee shall submit all compliance related notifications and reports required of this permit to the Palm Beach County Health Department's Air Section, and copies of those submittals shall be sent to the Department of Environmental Protection, Southeast District Office, Air Section.

Palm Beach County Health Department  
Air Section  
PO Box 29  
West Palm Beach, FL 33401  
Phone: 561/355-3070

Department of Environmental Protection  
Southeast District Office, Air Section  
PO Box 15425  
West Palm Beach, FL 33416  
Phone: 561/681-6600

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

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



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

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

**Section III. Emissions Unit(s) and Conditions.**

**Subsection A. This section addresses the following emissions unit(s).**

E.U. ID 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 megawatt (315 MW gross capacity) (electric) steam generators designated as Riviera Plant Unit 3 and Unit 4, respectively. The emissions units are fired on a variable combination of No. 6 fuel oil, No. 2 fuel oil, natural gas, propane, used oil from FPL operations, and expired fuel oil samples from FPL's Central laboratory. When firing fuel oil, the maximum heat input for each boiler is 3050 MMBtu per hour, and when firing natural gas, the maximum heat input for each boiler is 3260 MMBtu per hour.

Each emissions unit consists of a boiler which drives a turbine generator. Emissions are controlled with low NOx burners and multiple cyclones with ash re-injection. Each unit is equipped with a 298 foot stack. CAM does not apply.

{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.}

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

**Essential Potential to Emit (PTE) Parameters**

**A.1. Permitted Capacity.** The maximum operation heat input rates are as follows:

Unit No.	MMBtu/hr Heat Input*	Fuel Type
3	3260	Natural Gas
	3050	No. 2 or 6 Fuel Oil
4	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), 62-210.200(PTE) and 62-296.405, F.A.C., Revised Operation Permits AO 50-206721 and AO 50-206722, Issued August 2, 1993]

**A.2. Emissions Unit Operating Rate Limitation After Testing.** Emissions units may be limited to the operating rate or conditions tested. See specific conditions **A.25** and **A.26** of this permit.

[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 FPL operations, and expired fuel oil samples from FPL's Central laboratory.

[Rule 62-213.410, F.A.C.; AO 50-206721, Specific Conditions 1 and 3; and, AO 50-206721, Specific Conditions 1 and 3]

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

**Emission Limitations and Standards**

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

{Permitting Note: 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.** Sulfur dioxide emissions shall not exceed 2.75 pounds per million Btu heat input, 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)(c)1.j., F.A.C.]

**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**

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

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

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

### **Monitoring of Operations**

**A.14. Annual Tests Required.** Except as provided in specific conditions **A.17** through **A.19** of this permit, emission testing for particulate 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.15. Sulfur Dioxide.** The owner or operator of the emission units shall demonstrate compliance with the sulfur dioxide limit of specific condition **A.9** 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 of the SO<sub>2</sub> 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%, 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%, by weight, or less.

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

**A.16. Determination of Process Variables.**

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

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

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

**A.17. Frequency of Compliance Tests.** The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.

(a) General Compliance Testing.

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

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

a. Did not operate; or

b. In the case of a fuel burning emissions unit, burned liquid fuel for a total of no more than 400 hours.

4. During each federal fiscal year (October 1 - September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:

a. Visible emissions, if there is an applicable standard;

b. Each of the following pollutants, if there is an applicable standard, and if the emissions unit emits or has the potential to emit: 100 tons per year or more of any other regulated air pollutant; and

c. Each NESHAP pollutant, if there is an applicable emission standard.

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

9. The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

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

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

**A.18. 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.19. 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]

### **Test Methods and Procedures**

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

**A.20. Visible emissions.** The test method for visible emissions shall be DEP Method 9, incorporated in Chapter 62-297, F.A.C. A transmissometer may be used and calibrated according to Rule 62-297.520, F.A.C.  
[Rule 62-296.405(1)(e)1., F.A.C.]

**A.21. DEP Method 9.** The provisions of EPA Method 9 (40 CFR 60, Appendix A) are adopted by reference with the following exceptions:

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

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

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

b. For the short-term average part of the standard, opacity shall be the highest valid short-term average (i.e., two-minute, three-minute average) for the set of observations taken.

In order to be valid, any required average (i.e., a six-minute or two-minute average) shall be based on all of the valid observations in the sequential subset of observations selected, and the selected subset shall contain at least 90 percent of the observations possible for the required averaging time. Each required average shall be calculated by summing the opacity value of each of the valid observations in the appropriate subset, dividing this sum by the number of valid observations in the subset, and rounding the result to the nearest whole number. The number of missing observations in the subset shall be indicated in parenthesis after the subset average value.  
[Rule 62-297.401, F.A.C.]

**A.22. Particulate Matter.** The test methods for particulate emissions shall be EPA Methods 17, 5, 5B, or 5F, incorporated by reference in Chapter 62-297, F.A.C. The minimum sample volume shall be 30 dry standard cubic feet. EPA Method 5 may be used with filter temperature no more than 320 degrees Fahrenheit. For EPA Method 17, stack temperature shall be less than 375 degrees Fahrenheit. The owner or operator may use EPA Method 5 to demonstrate compliance. EPA Method 3 or 3A with Orsat analysis shall be used when the oxygen based F-factor, computed according to EPA Method 19, is used in lieu of heat input. Acetone wash shall be used with EPA Method 5 or 17. Particulate testing shall be conducted in accordance with the requirements of specific conditions **A.25** and **A.26** of this permit.  
[Rules 62-213.440, 62-296.405(1)(e)2. and 62-297.401, F.A.C.]

**A.23. Sulfur Dioxide.** The test methods for sulfur dioxide emissions shall be EPA Methods 6, 6A, 6B, or 6C, incorporated by reference in Chapter 62-297, F.A.C. 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; however, as an alternate sampling procedure authorized by permit, **the permittee shall demonstrate compliance using CEMS for sulfur dioxide. See specific condition A.15 of this permit.**

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

**A.24. Required Number of Test Runs.** For mass emission limitations, a compliance test shall consist of three complete and separate determinations of the total air pollutant emission rate through the test section of the stack or duct and three complete and separate determinations of any applicable process variables corresponding to the three distinct time periods during which the stack emission rate was measured provided, however, that three complete and separate determinations shall not be required if the process variables are not subject to variation during a compliance test, or if three determinations are not necessary in order to calculate the unit's emission rate. The three required test runs shall be completed within one consecutive five day period. In the event that a sample is lost or one of the three runs must be discontinued because of circumstances beyond the control of the owner or operator, and a valid third run cannot be obtained within the five day period allowed for the test, the Secretary or his or her designee may accept the results of the two complete runs as proof of compliance, provided that the arithmetic mean of the results of the two complete runs is at least 20 percent below the allowable emission limiting standards.

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

**A.25. Operating Rate During Testing.** Testing of emissions shall be conducted with each emissions unit operation at permitted capacity, which is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the emissions unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.

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

**A.26. 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.26.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 SO<sub>2</sub>



emissions between 90 to 100% of the SO<sub>2</sub> 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)9., F.A.C.]

**A.27. 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., applicant agreement with EPA on March 3, 1998]

### **Record Keeping and Reporting Requirements**

**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.26**, and, when applicable, demonstrate compliance with the requirements of condition **A.15**, 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. Calculation of Emission Rate.** The indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the separate test runs unless otherwise specified in a particular test method or applicable rule.  
[Rule 62-297.310(3), F.A.C.]

### **A.30. Applicable Test Procedures.**

#### **(a) Required Sampling Time.**

1. Unless otherwise specified in the applicable rule, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes.
2. Opacity Compliance Tests. When either EPA Method 9 or DEP Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Exceptions to these requirements are as follows:

- c. The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.
- (b) Minimum Sample Volume. Unless otherwise specified in the applicable rule, the minimum sample volume per run shall be 25 dry standard cubic feet.
- (c) Required Flow Rate Range. For EPA Method 5 particulate sampling, acid mist/sulfur dioxide, and fluoride sampling which uses Greenburg Smith type impingers, the sampling nozzle and sampling time shall be selected such that the average sampling rate will be between 0.5 and 1.0 actual cubic feet per minute, and the required minimum sampling volume will be obtained.
- (d) Calibration of Sampling Equipment. Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1 (attached to this permit).
- (e) Allowed Modification to EPA Method 5. When EPA Method 5 is required, the following modification is allowed: the heated filter may be separated from the impingers by a flexible tube. [Rule 62-297.310(4), F.A.C.]

**A.31. Required Stack Sampling Facilities**. When a mass emissions stack test is required, the permittee shall comply with the requirements contained in Appendix SS-1, Stack Sampling Facilities, attached to this permit. [Rule 62-297.310(6), F.A.C.]

**A.32. Excess Emissions - Malfunctions**. In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Palm Beach County Health Department, Air Section, in accordance with Rule 62-4.130, F.A.C. Notification shall include pertinent information as to the cause of the problem, and what steps are being taken to correct the problem and to prevent its recurrence, and where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with Department rules. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Palm Beach County Health Department, Air Section. [Rule 62-210.700(6), F.A.C.]

**A.33. Excess Emissions - Reports**. 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 explained. This report does not relieve the owner or operator of the legal liability for violations. All recorded data shall be maintained on file by the Source for a period of five years. [Rules 62-213.440 and 62-296.405(1)(g), F.A.C.]

**A.34. Test Reports**.

- (a) The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Palm Beach County Health Department, Air Section, on the results of each such test.
- (b) The required test report shall be filed with the Palm Beach County Health Department, Air Section, as soon as practical but no later than 45 days after the last sampling run of each test is completed.
- (c) The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Palm Beach County Health Department, Air Section, to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information:

1. The type, location, and designation of the emissions unit tested.
  2. The facility at which the emissions unit is located.
  3. The owner or operator of the emissions unit.
  4. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
  5. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.
  6. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
  7. A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.
  8. The date, starting time and duration of each sampling run.
  9. The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.
  10. The number of points sampled and configuration and location of the sampling plane.
  11. For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.
  12. The type, manufacturer and configuration of the sampling equipment used.
  13. Data related to the required calibration of the test equipment.
  14. Data on the identification, processing and weights of all filters used.
  15. Data on the types and amounts of any chemical solutions used.
  16. Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.
  17. The names of individuals who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.
  18. All measured and calculated data required to be determined by each applicable test procedure for each run.
  19. The detailed calculations for one run that relate the collected data to the calculated emission rate.
  20. The applicable emission standard, and the resulting maximum allowable emission rate for the emissions unit, plus the test result in the same form and unit of measure.
  21. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the Department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.
- [Rules 62-213.440 and 62-297.310(8), F.A.C.]

**A.35. 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.36. COMS for Periodic Monitoring.** The owner or operator is required to install continuous opacity monitoring systems (COMS) pursuant to 40 CFR Part 75. The owner or operator shall maintain and operate COMS and shall make and maintain records of opacity measured by the COMS, for purposes of periodic monitoring.

[Rule 62-213.440, F.A.C.; and, applicant agreement with EPA on March 3, 1998]

### **Miscellaneous Conditions**

**A.37. 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 PCB concentration of less than 50 ppm, originating from FPL 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 PCBs.

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]

**A.38. 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 application received June 12, 1996]

**Section IV. This section is the Acid Rain Part.**

**Operated by:** Florida Power and Light Company  
**ORIS code:** 0619

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

<b>E.U. ID No.</b>	<b>Brief Description</b>
-003	Fossil Fuel Steam Generator, Unit 3
-004	Fossil Fuel Steam Generator, Unit 4

**A.1.** The Phase II permit application(s) 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 unit(s) must comply with the standard requirements and special provisions set forth in the application(s) listed below:

- a. DEP Form No. 62-210.900(1)(a), dated April 7, 2003.  
[Chapter 62-213, F.A.C. and Rule 62-214.320, F.A.C.]

**A.2.** Sulfur dioxide (SO<sub>2</sub>) allowance allocations requirements for each Acid Rain unit are as follows:

<b>E.U. ID No.</b>	<b>EPA ID</b>	<b>Year</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>
-003	PRV3	<b>SO<sub>2</sub> allowances, under Table 2 or 3 of 40 CFR Part 73</b>	3573*	3573*	3573*	3573*	3573*
-004	PRV4	<b>SO<sub>2</sub> allowances, under Table 2 or 3 of 40 CFR Part 73</b>	3545*	3545*	3545*	3545*	3545*

\*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 or 3 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.

1. 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.

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

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

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

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

[Rules 62-213.413 and 62-214.370(4), F.A.C.]

**A.5.** Comments, notes, and justifications: none

**A.6.** Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be incorporated into the permit and shall be enforceable by the Administrator.

[40 CFR 70.6(a)(1)(ii); and, Rule 62-210.200, Definitions - Applicable Requirements, F.A.C.]

**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)(a)3., effective January 1, 1992, signed by the Designated Representative on December 12, 2002, and received by the Department on December 16, 2002. 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 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 (SO<sub>2</sub>) allowance allocations for the Acid Rain unit are as follows:

<u>E.U. ID</u> No.	EPA ID	Year	2004	2005	2006	2007	2008
-002	PRV2	SO <sub>2</sub> 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.

a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the Federal Acid Rain Program, provided that such increases do not require a permit revision pursuant to Rule 62-213.440(3), F.A.C.

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

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

[Rule 62-213.440(1)(c)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)(a)3., 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 Condition No. 51., Appendix TV-4, Title V Conditions.}  
[Rule 62-214.420(11), F.A.C.]

**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.

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

Florida Power & Light Company  
Riviera Plant

**FINAL Permit No.:** 0990042-003-AV  
**Facility ID No.:** 0990042

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

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

### **E.U. ID**

<b>No.</b>	<b><u>Brief Description of Emissions Units and/or Activity</u></b>
005	Painting and solvent cleaning
006	Emergency diesel generator, and mobile equipment and engines

## Appendix I-1: List of Insignificant Emissions Units and/or Activities.

Florida Power & Light Company  
Riviera Plant

FINAL Permit No.: 0990042-003-AV  
Facility ID No.: 0990042

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The facilities, emissions units, or pollutant-emitting activities listed in Rule 62-210.300(3)(a), F.A.C., Categorical Exemptions, or that meet the criteria specified in Rule 62-210.300(3)(b)1., F.A.C., Generic Emissions Unit Exemption, are exempt from the permitting requirements of Chapters 62-210, 62-212 and 62-4, F.A.C.; provided, however, that exempt emissions units shall be subject to any applicable emission limiting standards and the emissions from exempt emissions units or activities shall be considered in determining the potential emissions of the facility containing such emissions units. Emissions units and pollutant-emitting activities exempt from permitting under Rules 62-210.300(3)(a) and (b)1., F.A.C., shall not be exempt from the permitting requirements of Chapter 62-213, F.A.C., if they are contained within a Title V source; however, such emissions units and activities shall be considered insignificant for Title V purposes provided they also meet the criteria of Rule 62-213.430(6)(b), F.A.C. No emissions unit shall be entitled to an exemption from permitting under Rules 62-210.300(3)(a) and (b)1., F.A.C., if its emissions, in combination with the emissions of other units and activities at the facility, would cause the facility to emit or have the potential to emit any pollutant in such amount as to make the facility a Title V source.

The below listed emissions units and/or activities are considered insignificant pursuant to Rule 62-213.430(6), F.A.C.

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### Brief Description of Emissions Units and/or Activities

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1. Evaporation of boiler chemical cleaning waste
2. Natural gas metering area relief valves
3. Hydrazine mixing tank
4. Fuel oil storage tanks and related systems
5. Lube oil system
6. Oil/water separators and related equipment
7. Hazardous waste building
8. Paint and lube buildings
9. Misc. mobile vehicle operation

**Appendix H-1: Permit History**

**Florida Power & Light Company  
Riviera Plant**

**FINAL Permit No.: 0990042-003-AV  
Facility ID No.: 0990042**

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E.U. ID No.	Description	Permit No.	Effective Date	Expiration Date	Project Type <sup>1</sup>
All	Facility	0990042-003-AV	01/01/2004	12/31/2008	Renewal

<sup>1</sup> Project Type (select one): Title V: Initial, Revision, Renewal, or Administrative Correction; Construction (new or mod.); Extension (AC only); or, Withdrawn or Denied.

<sup>2</sup> ARMS day 55 from the date of posting the PROPOSED Permit for EPA review (see confirmation e-mail from Tallahassee) or the date that EPA confirms resolution of any objections.

**Table 1-1, Summary of Air Pollutant Standards and Terms**

Florida Power & Light  
Riviera Plant

**FINAL Permit No.:** 0990042-003-AV  
**Facility ID No.:** 0990042

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

**E.U. ID No. Brief Description**

- 003 Fossil Fuel Steam Generator, Unit 3
- 004 Fossil Fuel Steam Generator, Unit 4

Pollutant Name	Fuel(s)	Hours/Year	Allowable Emissions			Equivalent Emissions*		Regulatory Citation(s)	See permit condition(s)
			Standard(s)	lbs./hour	TPY	lbs./hour	TPY		
VE	all	8760	40% Opacity	N/A	N/A			62-296.405(1)(a)	III. A.5.
VE	all	3-hr/24-hr	60% Opacity	N/A	N/A			62-210.700(3)	III. A.6.
PM	all	8760	0.1 lb/MMBtu			326	1427.9	62-296.405(1)(b)	III. A.7.
PM	all	3-hr/24-hr	0.3 lb/MMBtu			978	178.5	62-210.700(3)	III. A.8.
SO <sub>2</sub>	all	8760	2.75 lb/MMBtu			8,965.0	39,226.7	62-296.405(1)(c)1.j.	III.A.9.
NOx	gas	8760	0.50 lb/MMBtu			1630	7,139.4	62-296.570(4)(a)4.	III.A.10.
NOx	oil	8760	0.62 lb/MMBtu			1891	8,282.6	62-296.570(4)(b)3.	III.A.10.

Notes:

\* The "Equivalent Emissions" listed are for informational purposes only.

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## Table 2-1, Summary of Compliance Requirements

Florida Power & Light  
Riviera Plant

FINAL Permit No.: 0990042-003-AV  
Facility ID No.: 0990042

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

### E.U. ID No. Brief Description

-003 Fossil Fuel Steam Generator, Unit 3  
-004 Fossil Fuel Steam Generator, Unit 4

Pollutant Name or Parameter	Fuel(s)	Compliance Method	Testing Time Frequency	Frequency Base Date *	Min. Compliance Test Duration	See permit condition(s)	
						CMS**	
VE	all	Method 9	annual		1 hour	YES	III.A.18. & III.A.20.
PM	all	Method 17, 5, 5B, 5F	annual		1 hour		III.A.19. & III.A.22.
SO <sub>2</sub>	all	Method 6, 6A, 6B, 6C			3-hr avg.	YES	III.A.15. & III.A.23.
NOx	all	CMS				YES	III.A.10.

#### Notes:

\* The frequency base date is established for planning purposes only; see Rule 62-297.310, F.A.C.

\*\*CMS [=] continuous monitoring system

\*\*\* The latest edition of the ASTM methods may be used.

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