



Jeb Bush  
Governor

# Department of Environmental Protection

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

David B. Struhs  
Secretary

## PROPOSED Permit Electronic Posting Courtesy Notification

Florida Power and Light Company  
Cutler Plant  
**Facility ID No.:** 0250001  
Dade County

Title V Air Operation Permit Renewal  
**PROPOSED Permit Project No.:** 0250001-002-AV

The electronic version of the PROPOSED permit was posted on the Division of Air Resources Management's world wide web site for the United States Environmental Protection Agency (USEPA) Region 4 office's review on October 28, 2002.

USEPA's review period ends on the 45th day after the permit posting date. Day 45 is December 11, 2002. If an objection (veto) is received from USEPA, the permitting authority will provide a copy of the objection to the applicant.

Provided an objection is not received from USEPA, the PROPOSED permit will become a FINAL permit by operation of law on the 55th day after the permit posting date. Day 55 is December 21, 2002.

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# Department of Environmental Protection

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

David B. Struhs  
Secretary

October 28, 2002

Mr. H. O. Nunez  
Plant Manager and Responsible Official  
Florida Power & Light Company  
P.O. Box 14000  
Juno Beach, FL 33408

Re: Title V Air Operation Permit Renewal  
PROPOSED Permit Project No. **0250001-002-AV**  
Renewal of Title V Air Operation Permit No. 0250001-001-AV  
**Cutler Plant**

Dear Mr. Nunez:

One copy of the "PROPOSED PERMIT DETERMINATION" for the Cutler Plant, located at 14925 SW 67 Avenue, Miami, Dade County, is enclosed. This letter is only a courtesy to inform you that the DRAFT permit has become a PROPOSED permit.

Pursuant to Section 403.0872(6), Florida Statutes, if no objection to the PROPOSED permit is made by the USEPA within 45 days, the PROPOSED permit will become a FINAL permit no later than 55 days after the date on which the PROPOSED permit was mailed (posted) to USEPA. If USEPA has an objection to the PROPOSED permit, the FINAL permit will not be issued until the permitting authority receives written notice that the objection is resolved or withdrawn. If you have any questions, please contact Tom Cascio at 850/921-9526.

Sincerely,

A. A. Linero, P.E.  
Bureau of Air Regulation

AAL/tbc

Enclosures

Copy furnished to:

Kennard F. Kosky, P.E., Golder Associates, Inc.

H. Patrick Wong, Dade County Department of Environmental Resources Management

U.S. EPA, Region 4 (INTERNET E-mail Memorandum)

10/29/02 - Mailed this date -  
10/28/02 - Posted.

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PROPOSED Permit Determination  
Florida Power & Light Company  
**Cutler Plant**  
Title V Permit Renewal No. 0250001-002-AV

**I. Public Notice.**

An "INTENT TO ISSUE TITLE V AIR OPERATION PERMIT RENEWAL" to the Florida Power & Light Company, for the Cutler Plant, located at 14925 SW 67 Avenue, Miami, Dade County, was clerked on August 28, 2002. The "PUBLIC NOTICE OF INTENT TO ISSUE TITLE V AIR OPERATION PERMIT RENEWAL" was published in the Miami Herald on September 25, 2002.

The DRAFT Title V Air Operation Permit was available for public inspection at the Dade County Department of Environmental Resources Management in Miami, and the permitting authority's office in Tallahassee. Proof of publication of the "PUBLIC NOTICE OF INTENT TO ISSUE TITLE V AIR OPERATION PERMIT RENEWAL" was received on October 17, 2002.

**II. Public Comment(s).**

No comments were received concerning the DRAFT Title V Operation Permit Renewal.

**III. Conclusion.**

The permitting authority hereby issues the PROPOSED Permit No. 0250001-002-AV, with two minor changes due to a permit format modification, as noted below:

- The Department has recently revised the format for Title V permits that has eliminated **Subsection D. Miscellaneous** of **Section I. Facility Information**.

This Subsection in the DRAFT permit contained the following statement:

The use of 'Permitting Notes' throughout this permit are for informational purposes only and are not permit conditions.

- The following permitting note was added after Specific Condition A.1.:

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

# STATEMENT OF BASIS

Florida Power and Light Company  
**Cutler Plant**  
Facility ID No. **0250001**  
Dade County

Title V Air Operation Permit Renewal  
PROPOSED Permit Project No. **0250001-002-AV**  
Renewal of Title V Air Operation Permit No. 0250001-001-AV

The initial Title V Air Operation Permit, No. 0250001-001-AV, was issued/effective on January 1, 1998. 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 perform the work or 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 No. 0250001-001-AV.

This facility consists of two natural gas and fuel oil fired conventional steam electric generating stations, designated as Units #5 and #6 by the Florida Power & Light Company. Both emissions units consist of a boiler/steam generator that drives a single reheat turbine generator, and are equipped with a 150-foot exhaust stack.

Unit #5 is comprised of a Combustion Engineering outdoor-type boiler/steam generator and a Westinghouse outdoor reheat condensing steam turbine that drives a hydrogen-cooled generator with nameplate rating of 75 megawatts. The emission unit is fired on No. 2 or No. 6 fuel oil with a maximum heat input of 170 mmBtu per hour, or natural gas with a maximum heat input of 940 mmBtu per hour. It commenced commercial operation in November 1954.

Unit #6 is comprised of a Combustion Engineering outdoor-type boiler/steam generator and a General Electric tandem compound single reheat turbine generator with generator nameplate rating of 160 megawatts. The emission unit is fired on No. 2 or No. 6 fuel oil with a maximum heat input of 290 mmBtu per hour, or natural gas with a maximum heat input of 1620 mmBtu per hour. It commenced commercial operation in July 1955.

Fuel additives such as, but not limited to, magnesium hydroxide are used to enhance combustion and facilitate furnace cleaning, in a manner consistent with Best Operational Practices.

The only control devices at the facility are multiple cyclones (i.e., two tubular dust collectors) on each of the two boilers. Because these emissions units operate primarily on natural gas (i.e., fuel oil is allowed only during startup), Compliance Assurance Monitoring (CAM) *does not apply*. The units have not fired fuel oil since the effective date of the initial Title V Permit (January 1, 1998).

The emissions units are regulated under Phase II of the Federal Acid Rain Program (the facility holds ORIS code 0610), and Rule 62-296.405, F.A.C., Fossil Fuel Steam Generators with More than 250 million Btu per Hour Heat Input.

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

Based on the Title V permit renewal application received July 5, 2002, this facility is *not* a major source of hazardous air pollutants (HAPs).

Florida Power and Light Company  
**Cutler Plant**  
Facility ID No. **0250001**  
Dade County

Title V Air Operation Permit Renewal

PROPOSED Permit Project No. **0250001-002-AV**  
Renewal of Title V Air Operation Permit No. **0250001-001-AV**

Permitting Authority:

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

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

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

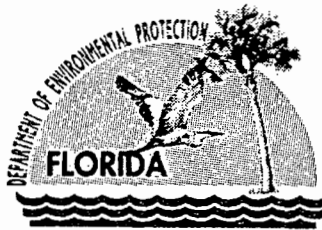
Compliance Authority:

Dade County  
Department of Environmental Resources Management  
Suite 900  
33 Southwest Second Avenue  
Miami, Florida 33130-1540  
Telephone: 305/372-6925  
Fax: 305/372-6954

Title V Air Operation Permit Renewal  
PROPOSED Permit Renewal No. 0250001-002-AV

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# Department of Environmental Protection

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

David B. Struhs  
Secretary

**Permittee:** PROPOSED Permit Renewal No. **0250001-002-AV**  
Florida Power & Light Company Facility ID No. **0250001**  
P.O. Box 140000 **SIC Nos.:** 49, 4911  
Juno Beach, Florida 33408 **Project:** Title V Air Operation Permit Renewal

The purpose of this permit is to renew Title V Air Operation Permit No. 0250001-001-AV, issued on January 1, 1998, for the operation of the Cutler Plant. This facility is located at 14925 SW 67 Avenue, Miami, Dade County; UTM Coordinates: Zone 17, 570.4 km East and 2834.9 km North; Latitude: 25° 37' 52" North and Longitude: 80° 17' 56" 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 perform the work or 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 I-1, List of Insignificant Emissions Units and/or Activities  
Appendix U-1, List of Unregulated Emissions Units and/or Activities  
Appendix TV-4, Title V Conditions, version dated February 12, 2002  
Appendix SS-1, Stack Sampling Facilities  
Phase II Acid Rain Part Renewal Application received August 19, 2002  
Alternate Sampling Procedure: ASP No. 97-B-01

**Effective Date:** January 1, 2003  
**Renewal Application Due Date:** July 5, 2007  
**Expiration Date:** December 31, 2007

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Howard L. Rhodes, Director  
Division of Air Resource  
Management

HLR/tbc



**Section I. Facility Information.**

**Subsection A. Facility Description.**

This facility consists of two natural gas and fuel oil fired conventional steam electric generating stations, designated as Units #5 and #6 by the Florida Power & Light Company. Unit #5 is comprised of a Combustion Engineering outdoor-type boiler/steam generator and a Westinghouse outdoor reheat condensing steam turbine that drives a hydrogen-cooled generator with a nameplate rating of 75 megawatts. Unit #6 is comprised of a Combustion Engineering outdoor-type boiler/steam generator and a General Electric tandem compound single reheat turbine generator with a generator nameplate rating of 160 megawatts. Also included in this permit are miscellaneous unregulated emissions units and/or activities.

Based on the Title V permit renewal application received July 5, 2002, this facility is *not* a major source of hazardous air pollutants (HAPs).

**Subsection B. Summary of Emissions Unit ID Nos. and Brief Descriptions.**

| <b>E.U. ID No.</b> | <b>Brief Description</b>             |
|--------------------|--------------------------------------|
| -003               | Fossil Fuel Fired Steam Generator #5 |
| -004               | Fossil Fuel Fired Steam Generator #6 |

**Unregulated Emissions Units and/or Activities**

|      |                               |
|------|-------------------------------|
| -xxx | Painting and Solvent Cleaning |
| -xxx | Mobile Equipment and Engines  |
| -xxx | Emergency Diesel Generator    |

*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, 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/ID Number Changes.

Statement of Basis.

These documents are on file with permitting authority:

Application for a Title V Air Operation Permit Renewal received July 5, 2002.

DRAFT Title V Permit clerked on August 28, 2002.

## 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 one copy when requested or otherwise appropriate.}
2. **Not federally enforceable. General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited.** The permittee shall not cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.  
[Rule 62-296.320(2), F.A.C.]
3. **General Particulate Emission Limiting Standards. General Visible Emissions Standard.** Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C.  
[Rule 62-296.320(4)(b)1., & 4., F.A.C.]
4. **Prevention of Accidental Releases (Section 112(r) of CAA).**
  - a. The permittee shall submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center when, and if, such requirement becomes applicable. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to:  

RMP Reporting Center  
Post Office Box 3346  
Merrifield, VA 22116-3346  
Telephone: 703/816-4434
- and,
- b. The permittee shall submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.  
[40 CFR 68]
5. **Unregulated Emissions Units and/or Activities.** Appendix U-1, List of Unregulated Emissions Units and/or Activities, is a part of this permit.  
[Rule 62-213.440(1), F.A.C.]
6. **Insignificant Emissions Units and/or Activities.** Appendix I-1, List of Insignificant Emissions Units and/or Activities, is a part of this permit.  
[Rules 62-213.440(1), 62-213.430(6), and 62-4.040(1)(b), F.A.C.]
7. [Reserved.]

8. 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.  
[Rule 62-296.320(1)(a), F.A.C.]

9. **Not federally enforceable.** Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include the following:

- a. In order to perform sandblasting on fixed plant equipment, sandblasting enclosures shall be constructed and operated as necessary.
- b. Maintenance of paved areas shall be performed as needed.
- c. Mowing of grass and care of vegetation shall be done on a regular basis.
- d. Access to plant property by unnecessary vehicles shall be controlled and limited.
- e. Bagged chemical products shall be stored in weather tight buildings until they are used. Spills of powdered chemical products shall be cleaned up as soon as practical.
- f. Vehicles shall be restricted to slow speeds on the plant site.

[Rule 62-296.320(4)(c)2., F.A.C.; and proposed by applicant in the Title V permit renewal application received July 5, 2002.]

10. 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.]

11. 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).}

12. The permittee shall submit all compliance related notifications and reports required of this permit to the Dade County Department of Environmental Resources Management (DERM) office:

Dade County  
Department of Environmental Resources Management  
Suite 900  
33 Southwest Second Avenue  
Miami, Florida 33130-1540  
Telephone: 305/372-6925  
Fax: 305/372-6954

13. Any reports, data, notifications, certifications, and requests required for 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  
61 Forsyth Street  
Atlanta, Georgia 30303-8960  
Telephone: 404/562-9155  
Fax: 404/562-9163

14. 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 Units and Conditions.**

**Subsection A. This section addresses the following emissions units.**

| <b>E.U. ID No.</b> | <b>Brief Description</b>             |
|--------------------|--------------------------------------|
| -003               | Fossil Fuel Fired Steam Generator #5 |
| -004               | Fossil Fuel Fired Steam Generator #6 |

Fossil Fuel Fired Steam Generator #5 is a nominal 75 megawatt (electric) steam generator designated as Cutler Unit #5. The emission unit is fired on No. 2 or No. 6 fuel oil with a maximum heat input of 170 mmBtu per hour, or natural gas with a maximum heat input of 940 mmBtu per hour. It commenced commercial operation in November 1954.

Fossil Fuel Fired Steam Generator #6 is a nominal 160 megawatt (electric) steam generator designated as Cutler Unit #6. The emission unit is fired on No. 2 or No. 6 fuel oil with a maximum heat input of 290 mmBtu per hour, or natural gas with a maximum heat input of 1620 mmBtu per hour. It commenced commercial operation in July 1955.

Fuel additives such as, but not limited to, magnesium hydroxide are used to enhance combustion and facilitate furnace cleaning, in a manner consistent with Best Operational Practices.

Both emissions units consist of a boiler/steam generator that drives a single reheat turbine generator, and are equipped with a 150 foot exhaust stack. The control devices consist of multiple cyclones (i.e., tubular mechanical dust collectors).

The units also have continuous emissions monitoring systems (CEMs) installed for NO<sub>x</sub> (TECO model 42).

{Permitting note: the 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.}

**The following specific conditions apply:**

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

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

| <b>Unit No.</b> | <b>mmBtu/hr Heat Input</b> | <b>Fuel Type</b>        |
|-----------------|----------------------------|-------------------------|
| 5               | 940                        | Natural Gas             |
|                 | 170                        | No. 2 or No. 6 Fuel Oil |
| 6               | 1620                       | Natural Gas             |
|                 | 290                        | No. 2 or No. 6 Fuel Oil |

[Rules 62-4.160(2), 62-210.200 (PTE), and 62-296.405, F.A.C.; AO13-173751; AO13-173753 ]

{Permitting note: The heat input limitations have been placed in each permit to identify the capacity of each unit for the purposes of confirming that emissions testing is conducted within 90 to 100 percent of the unit's rated capacity (or to limit future operation to 110 percent of the test load), to establish appropriate emission limits and to aid in determining future rule applicability. Regular record keeping is not required

for heat input. Instead the owner or operator is expected to determine heat input whenever emission testing is required, to demonstrate at what percentage of the rated capacity that the unit was tested. Rule 62-297.310(5), F.A.C., included in the permit, requires measurement of the process variables for emission tests. Such heat input determination may be based on measurements of fuel consumption by various methods including but not limited to fuel flow metering or tank drop measurements, using the heat value of the fuel determined by the fuel vendor or the owner or operator, to calculate average hourly heat input during the test.}

**A.2. Emissions Unit Operating Rate Limitation After Testing.** See Specific Condition A.27. [Rule 62-297.310(2), F.A.C.]

**A.3. Methods of Operation. Fuels.**

a. Startup: The only fuels allowed to be burned are natural gas, No. 2 fuel oil, or No. 6 fuel oil, both with a 0.5% maximum sulfur content by weight.

b. Normal: The only fuel allowed to be burned is natural gas.

[Rule 62-213.410, F.A.C.; AO13-173751, Specific Condition No. 1; AO13-173753, Specific Condition No. 1]

**A.4. Emergency Operation.**

No. 2 fuel oil or No. 6 fuel oil may be burned during emergency conditions, as authorized by Metropolitan Dade County.

[AO13-173751; AO13-173753]

**A.5. 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: 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.6. through A.12. are based on the specified averaging time of the applicable test method.}

**A.6. Visible Emissions.** Visible emissions shall not exceed 20 percent opacity, except for one two-minute period per hour during which opacity shall not exceed 40 percent. Emissions units governed by this visible emissions limit shall compliance test for particulate matter emissions annually and as otherwise required by Chapter 62-297, F.A.C.

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

**A.7. 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.

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

**A.8. 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.9. 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.10. Not federally enforceable. Sulfur Dioxide.** Sulfur dioxide emissions when burning liquid fuel shall not exceed 0.55 lb/mmBtu heat input, and 93.5 pounds per hour for Unit #5, and 159.5 pounds per hour for Unit #6, as measured by applicable compliance methods.  
[AO13-173751 and AO13-17353, based on Metropolitan Dade County Code Sec. 24-17(2)(c)(iii).]

**A.11. Sulfur Dioxide.**

a. When burning liquid fuel, sulfur dioxide emissions shall not exceed 1.1 pounds per million Btu heat input, as measured by applicable compliance methods.

b. The No. 2 or No. 6 fuel oil sulfur content shall not exceed 0.5 percent, by weight. See Specific Condition A.25.

[Rules 62-296.405(1)(c)1.i. and 62-296.405(1)(e)3., F.A.C.; AO13-173751 and AO13-173753]

**A.12. Nitrogen Oxides.** Nitrogen oxides emissions shall not exceed 0.20 pounds per million Btu heat input, and 188 pounds per hour for Unit #5 and 324 pounds per hour for Unit #6, as measured by applicable compliance methods.  
[Rule 62-296.570(4)(b)4., F.A.C.; AO13-173751 and AO13-173753]

### **Excess Emissions**

**A.13.** 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.14.** 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.15.** 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.]

**A.16.** A written quarterly report shall be submitted to the Department's Southeast District Office and the Dade County Department of Environmental Resources Management of all opacity exceedances of emissions limitations. The report shall state the cause, period of non-compliance, and steps taken for corrective action and/or prevention of recurrence. The Department shall also be notified when there are no exceedances for a quarter. All recorded data shall be maintained on file by the permittee for no less than two (2) years and made available to the Department upon request.

[AO13-173751 and AO13-173753, Specific Condition No. 5]

### **Monitoring of Operations**

**A.17. Sulfur Dioxide.** The permittee elected to demonstrate compliance by accepting a liquid fuel sulfur limit that will be verified with a fuel analysis provided by the vendor upon each fuel delivery. This protocol is allowed because the emissions unit does not have an operating flue gas desulfurization device. See Specific Conditions A.11., A.24., and A.25. [Rule 62-296.405(1)(f)1.b., F.A.C.]

**A.18. 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.19.** A continuous monitoring system for NO<sub>x</sub> shall be calibrated, maintained, operated, and output recorded for determining compliance with the emissions limits.

[AO13-173751 and AO13-173753]

### **Test Methods and Procedures**

{Permitting note: 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. See Specific Condition A.21.

[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.** Testing of particulate matter emissions shall be conducted if unit operation on oil, exclusive of start-up, exceeds 400 hours per year. [Rule 62-297.310(7), F.A.C.; AO13-173751, AO13-173753, Specific Condition No. 2.]

**A.23. 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 (Orsat analysis) or 3A shall be used when the oxygen based F-factor is computed according to EPA Method 19 is used in lieu of heat input. Acetone wash shall be used with EPA Method 5 or 17. [Rules 62-213.440, 62-296.405(1)(e)2., and 62-297.401, F.A.C.]

**A.24. Sulfur Dioxide.** The test methods for sulfur dioxide emissions shall be EPA Methods 6, 6A, 6B, or 6C, incorporated by reference in Chapter 62-297, F.A.C. Fuel sampling and analysis may be used as an alternate sampling procedure if such a procedure is incorporated into the operation permit for the emissions unit. If the emissions unit obtains an alternate procedure under the provisions of Rule 62-297.620, F.A.C., the procedure shall become a condition of the emissions unit's permit. The Department will retain the authority to require EPA Method 6 or 6C if it has reason to believe that exceedences of the sulfur dioxide emissions limiting standard are occurring. Results of an approved fuel sampling and analysis program shall have the same effect as EPA Method 6 test results for purposes of demonstrating compliance or noncompliance with sulfur dioxide standards. **The permittee may use the EPA test methods, referenced**

above, to demonstrate compliance; however, as an alternate sampling procedure authorized by permit, the permittee elected to demonstrate compliance by accepting a liquid fuel sulfur limit that will be verified with a fuel analysis provided by the vendor upon each fuel delivery. See Specific Conditions A.11. and A.25.

[Rules 62-213.440, 62-296.405(1)(e)3. and 62-297.401, F.A.C.; and, AO13-173751 and AO13-173753]

**A.25.** The fuel sulfur content, percent by weight, for liquid fuels shall be evaluated using either ASTM D2622-92, ASTM D4294-90, both ASTM D4057-88 and ASTM D129-91, or the latest edition.

[Rules 62-213.440, 62-296.405(1)(e)3., 62-296.405(1)(f)1.b. and 62-297.440, F.A.C.]

**A.26.** 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.27.** 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.28.** 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.29.** 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.

TABLE 297.310-1  
 CALIBRATION SCHEDULE

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

(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.30. 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.31. 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: 5 tons per year or more of lead or lead compounds measured as elemental lead; 30 tons per year or more of acrylonitrile; or 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.32.** 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.33.** 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.]

### **Recordkeeping and Reporting Requirements**

**A.34.** In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Dade County Department of Environmental Resources Management (DERM) in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by DERM.

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

**A.35.** The permittee shall submit to DERM 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 permittee for a period of five years.

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

**A.36.** Test Reports.

(a) The owner or operator of an emissions unit for which a compliance test is required shall file a report with DERM on the results of each such test.

- (b) The required test report shall be filed with DERM 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 DERM 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 DERM, 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.]

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

Operated by: **Florida Power and Light Company**  
ORIS code: **0610**

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

The emissions units listed below are regulated under Phase II of the Federal Acid Rain Program.

| <b>E.U. ID No.</b> | <b>Description</b>                   |
|--------------------|--------------------------------------|
| -003               | Fossil Fuel Fired Steam Generator #5 |
| -004               | Fossil Fuel Fired Steam Generator #6 |

1. The Phase II permit application submitted for this facility, as approved by the Department, is a part of this permit. The owners and operators of these 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), version dated April 16, 2001, signed by the Designated Representative on August 13, 2002 and received by the Department on August 19, 2002. [Chapter 62-213, F.A.C. and Rule 62-214.320, F.A.C.]

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

| <b>E.U. ID No.</b> | <b>EPA ID</b> | <b>Year</b>   | <b>2003</b> | <b>2004</b> | <b>2005</b> | <b>2006</b> | <b>2007</b> |
|--------------------|---------------|---|-------------|-------------|-------------|-------------|-------------|
| -003               | PCU5          | SO <sub>2</sub> allowances under Table 2 of 40 CFR 73 | 0*          | 0*          | 0*          | 0*          | 0*          |
| -004               | PCU6          | SO <sub>2</sub> allowances under Table 2 of 40 CFR 73 | 0*          | 0*          | 0*          | 0*          | 0*          |

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

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

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.]



4. 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.]

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

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.

Brief Description of Emissions Units and/or Activities:

|    |   |
|----|---|
| 1  | Natural Gas Metering Area Relief Valves       |
| 2  | Hydrazine Mixing Tank                         |
| 3  | Lube Oil Vapor Extraction Vents               |
| 4  | Lube Oil Dump Tank Vent                       |
| 5  | Oil Separation Basin                          |
| 6  | Hazardous Waste Building                      |
| 7  | Paint/Lube Building                           |
| 8  | Miscellaneous mobile vehicle operation        |
| 9  | Portable Unleaded Gasoline Tank               |
| 10 | Portable Diesel Fuel Tank - 2" Vent           |
| 11 | Evaporation of Boiler Chemical Cleaning Waste |

{Note: Emissions units or activities which are added to a Title V source after issuance of this permit shall be incorporated into the permit at its next renewal, provided such emissions units or activities have been exempted from the requirement to obtain an air construction permit, and also qualify for exemption from permitting pursuant to Rule 62-213, F.A.C. [Rule 62-213.430(6)(a)]}

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

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

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

| <b>Emissions Unit</b> | <b>Description</b>            |
|-----------------------|-------------------------------|
| -xxx                  | Painting and Solvent Cleaning |
| -xxx                  | Mobile Equipment and Engines  |
| -xxx                  | Emergency Diesel Generator    |

**Appendix H-1. Permit History/ID Number Changes**

**Permit History (for tracking purposes):**

| E.U. ID No. | Description                    | Permit No.     | Issue Date | Expiration Date | Extended Date | Revised Date(s)    |
|-------------|--------------------------------|----------------|------------|-----------------|---------------|--------------------|
| -003        | Fossil Fuel Steam Generator #5 | AO13-173751    | 02/27/90   | 02/22/95        | 08/14/96      | 04/19/90, 08/02/93 |
|             |                                | 0250001-001-AV | 01/01/98   | 12/31/02        |               |                    |
| -004        | Fossil Fuel Steam Generator #6 | AO13-173753    | 02/26/90   | 02/22/95        | 08/14/96      | 04/19/90, 08/02/93 |
|             |                                | 0250001-001-AV | 01/01/98   | 12/31/02        |               |                    |

**ID Number Changes (for tracking purposes):**

From: Facility ID No.: **50DAD130001**

To: Facility ID No.: **0250001**

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

Florida Power & Light Company  
**Cutler Plant**

**Permit No.: 0250001-002-AV**  
**Facility ID No.: 0250001**

*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 Nos.                  |         | Brief Description                    |                     |           |     |                       |        |   |                         |
|-------------------------------|---------|--------------------------------------|---------------------|-----------|-----|-----------------------|--------|---|-------------------------|
| -003                          |         | Fossil Fuel Fired Steam Generator #5 |                     |           |     |                       |        |   |                         |
| 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    |   |                         |
| <b>Visible Emissions</b>      |         |                                      |                     |           |     |                       |        |   |                         |
| Steady State                  | gas     | 8760                                 | 20% Opacity         |           |     |                       |        | Rule 62-296.405(1)(a), F.A.C.                     | A.6.                    |
| Soot Blowing or Load Changing | gas     |                                      | 60% Opacity         |           |     |                       |        | Rule 62-210.700(3), F.A.C.                        | A.7.                    |
| <b>Particulate Matter</b>     |         |                                      |                     |           |     |                       |        |   |                         |
| Steady State                  | gas     | 8760                                 | 0.1 lb/MMBtu        |           |     | 94.0                  | 120.86 | Rule 62-296.405(1)(b), F.A.C.                     | A.8.                    |
| Soot Blowing or Load Changing | gas     |                                      | 0.3 lb/MMBtu        |           |     | 282.0                 |        | Rule 62-210.700(3), F.A.C.                        | A.9.                    |
| <b>Sulfur Dioxide</b>         |         |                                      |                     |           |     |                       |        |   |                         |
|                               | oil     | startup                              | 1.1 lb/MMBtu        |           |     | 187                   |        | Rules 62-213.440 and 62-296.405(1)(c)1.i., F.A.C. | A.11.                   |
|                               | oil     | startup                              | 0.55 lb/MMBtu***    | 93.5      |     |                       |        |   | A.10.                   |
| <b>Nitrogen Oxides</b>        | gas     | 8760                                 | 0.2 lb/MMBtu        | 188       |     |                       |        | Rule 62-296.570(4)(b)4., F.A.C.                   | A.12.                   |

| -004                          |         | Fossil Fuel Fired Steam Generator #6 |                     |           |     |                       |        |   |                         |
|-------------------------------|---------|--------------------------------------|---------------------|-----------|-----|-----------------------|--------|---|-------------------------|
| 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    |   |                         |
| <b>Visible Emissions</b>      |         |                                      |                     |           |     |                       |        |   |                         |
| Steady State                  | gas     | 8760                                 | 20% Opacity         |           |     |                       |        | Rule 62-296.405(1)(a), F.A.C.                     | A.6.                    |
| Soot Blowing or Load Changing | gas     |                                      | 60% Opacity         |           |     |                       |        | Rule 62-210.700(3), F.A.C.                        | A.7.                    |
| <b>Particulate Matter</b>     |         |                                      |                     |           |     |                       |        |   |                         |
| Steady State                  | gas     | 8760                                 | 0.1 lb/MMBtu        |           |     | 162.0                 | 208.29 | Rule 62-296.405(1)(b), F.A.C.                     | A.8.                    |
| Soot Blowing or Load Changing | gas     |                                      | 0.3 lb/MMBtu        |           |     | 486.0                 |        | Rule 62-210.700(3), F.A.C.                        | A.9.                    |
| <b>Sulfur Dioxide</b>         |         |                                      |                     |           |     |                       |        |   |                         |
|                               | oil     | startup                              | 1.1 lb/MMBtu        |           |     | 319.0                 |        | Rules 62-213.440 and 62-296.405(1)(c)1.i., F.A.C. | A.11.                   |
|                               | oil     | startup                              | 0.55 lb/MMBtu***    | 159.5     |     |                       |        |   | A.10.                   |
| <b>Nitrogen Oxides</b>        | gas     | 8760                                 | 0.2 lb/MMBtu        | 324       |     |                       |        | Rule 62-296.570(4)(b)4., F.A.C.                   | A.12.                   |

Notes:  
 \* The "Equivalent Emissions" listed are for informational purposes only.  
 \*\* Values computed using the ratio of 3/21 for soot blowing/steady state per 24 hour day.  
 \*\*\*Limit based on Metropolitan Dade County Code.

**Table 2-1. Summary of Compliance Requirements.**

Florida Power and Light Company  
Cutler Plant

Permit No.: 0250001-002-AV  
Facility ID No.: 0250001

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 Fired Steam Generator #5   |                              |                             |                                     |                         |                            |
| -004  |       | Fossil Fuel Fired Steam Generator #6   |                              |                             |                                     |                         |                            |
| Pollutant Name<br>or Parameter  | Fuels | Compliance<br>Method                   | Testing<br>Time<br>Frequency | Frequency<br>Base<br>Date * | Min. Compliance<br>Test<br>Duration | CMS**                   |                            |
|   |       |  |                              |                             |                                     | See permit condition(s) |                            |
| <b>Visible Emissions</b>  |       |  |                              |                             |                                     |                         |                            |
| Steady State  | gas   | DER Method 9                           | Annual                       | 1-Oct                       | 1 hour                              |                         | A.20., A.21.               |
| Soot Blowing or<br>Load Changing  | gas   | DER Method 9                           | Annual                       | 1-Oct                       | 1 hour                              |                         | A.20., A.21.               |
| <b>Particulate Matter</b>   |       |  |                              |                             |                                     |                         |                            |
| Steady State  | gas   | EPA Method 5 or 17                     | Annual                       | 1-Oct                       | 3 hour                              |                         | A.22., A.23.               |
| Soot Blowing or<br>Load Changing  | gas   | EPA Method 5 or 17<br>***              | Annual                       | 1-Oct                       |                                     |                         | A.22., A.23.               |
| <b>Sulfur Dioxide</b>   | oil   | Sulfur limit with vendor fuel analysis | Daily                        |                             |                                     |                         | A.11., A.17., A.24., A.25. |
| <b>Nitrogen Oxides</b>  | gas   | CMS                                    | Continuous                   |                             |                                     | Yes                     | A.19.                      |
| Notes:<br>*Frequency base date established for planning purposes only; see Rule 62-297.310, F.A.C.<br>**CMS [=] continuous monitoring system<br>***EPA Method 17 may be used only if the stack gas exit temperature is less than 375 degrees F. |       |  |                              |                             |                                     |                         |                            |