# Department of Environmental Protection

Jeb Bush
Governor

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
Putnam Plant
**Facility ID No.:** 1070014
Putnam County

Initial Title V Air Operation Permit
**PROPOSED Permit No.:** 1070014-004-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 February 15, 2000.

USEPA's review period ends on the 45th day after the permit posting date. Day 45 is March 31, 2000. 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 April 10, 2000.

The web site address is http://www.dep.state.fl.us/air.

# Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

February 8, 2000

Robert Bergstrom
Plant General Manager
Florida Power and Light Company Putnam Plant
392 U.S. Highway 17 South
East Palatka, Florida 32131

Re: PROPOSED Title V Permit Revision No.: 1070014-004-AV
Putnam Plant

Dear Mr. Bergstrom:

One copy of the "PROPOSED PERMIT REVISION DETERMINATION" for the Florida Power and Light Company Putnam Plant located at 392 U.S. Highway 17 South, East Palatka, Putnam County, is enclosed. This letter is only a courtesy to inform you that the DRAFT permit revision has become a PROPOSED permit revision.

An electronic version of this determination has been 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. The web site address is http.//www.dep.state.fl.us/air.

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revision will not be issued until the permitting authority receives written notice that the objection is resolved or withdrawn.

If you should have any questions, please contact Wendy Alexander, at 850/921-9527.

Sincerely,

C. H. Fancy, P.E.
Chief
Bureau of Air Regulation

CHF/wa

Enclosures

Copy furnished to:
Richard G. Piper, Florida Power and Light Company
Kennard F. Kosky, P.E., Golder Associates, Inc.
Chris Kirts, P.E., DEP, Northeast District Office
Gregg Worley, U.S. EPA, Region 4 (INTERNET E-mail Memorandum)
Elizabeth Bartlett, U.S. EPA, Region 4 (INTERNET E-mail Memorandum)

2/15/00 cc: Wendy Alexander
Reading File

# PROPOSED PERMIT REVISION DETERMINATION

**Florida Power and Light Company**
**Putnam Plant**
**Proposed Permit Revision No.: 1070014-004-AV**

## I. Public Notice.

An "INTENT TO ISSUE TITLE V AIR OPERATION PERMIT REVISION" to Florida Power and Light Company for the Putnam Plant located at 392 U.S. Highway 17 South, East Palatka, Putnam County, was clerked on December 13, 1999. The "PUBLIC NOTICE OF INTENT TO ISSUE TITLE V AIR OPERATION PERMIT REVISION" was published in the Daily News on December 21, 1999. The DRAFT Title V Air Operation Permit Revision was available for public inspection at the Department of Environmental Protection's Northeast District Office in Jacksonville and the permitting authority's office in Tallahassee. Proof of publication of the "PUBLIC NOTICE OF INTENT TO ISSUE TITLE V AIR OPERATION PERMIT REVISION" was received on January 05, 2000.

## II. Public Comment(s).

No comments were received during the 30 (thirty) day public comment period. Since no comments were received, the DRAFT Title V Air Operation Permit becomes the PROPOSED Title V Air Operation Permit.

## III. Conclusion.

Since there were no comments received during the Public Notice period, no changes were made to the DRAFT Title V Permit and the permitting authority hereby issues the PROPOSED Permit No.: 1070014-004-AV.

# STATEMENT OF BASIS

Title V PROPOSED Permit Revision No.: 1070014-004-AV
Florida Power and Light Company
Putnam Plant
Putnam County

This facility was issued an initial Final Title V Air Operation Permit (Permit No. 1070014-001-AV) on June 17, 1998. An administrative permit correction (Project No. 1070014-002-AV) to Permit No. 1070014-001-AV was issued on July 27, 1998. The Department issued Air Construction (AC) Permit No. 1070014-003-AC on July 20, 1999. The AC permit described the existing facility that was approved through Power Plant Certification No. PA 74-01 and allowed installation of inlet foggers on the four 70 MW Westinghouse Model 501B5A combined cycle combustion turbine-electrical generators (Emissions units 003 through 006). The inlet foggers reduce the turbine inlet air temperature, which improves the heat rate and increases power due to the cooler/denser inlet air.

This Title V Permit Revision incorporates the new inlet fogger conditions from Permit No. 1070014-003-AC into the Title V Air Operation Permit. This revision is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 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 revision.

The facility consists of four combustion turbines, each with an associated heat recovery steam generator equipped with duct burners, an auxiliary boiler, and unregulated emissions units. Each combustion turbine is Westinghouse unit rated at 70 MW generating capacity (at 85 degrees F ambient temperature), with a maximum heat input for natural gas and fuel oil of 968.3 mmBtu/hr and 910.6 mmBtu/hr, respectively. The duct burners for each HRSG are rated at a maximum heat input of 250 mmBtu/hr, and are fired with natural gas and number 2 fuel oil. The auxiliary boiler is manufactured by VA-Power and has a maximum heat input for natural gas and number 2 fuel oil of 16.275 mmBtu/hr and 14.28 mmBtu/hr, respectively.

Proposed revisions to the Initial Final Title V Permit No. 1070014-001-AV for the Florida Power and Light Company Putnam Plant are described below.

**1. The following information will be added to Subsection C., Relevant Documents:**

These documents are on file with the permitting authority:
Initial Title V Air Operation Permit issued June 17, 1998.
Administrative Permit Correction to Initial Title V Air Operation Permit issued July 27, 1998.
Title V Permit Revision Application received September 28, 1999.

**2. The permitting note under the list of emissions units for Section III., Subsection A. will be changed as follows:**

**FROM:**
{Permitting notes: These emissions units are regulated under Rule 62-210.300, F.A.C., Permits Required and Power Plant Siting Certification No. PA 74-01 ordered 10/16/74, and the modified conditions of PA 74-01 modified 5/20/80, 3/15/84, 7/16/91 and 5/28/92.....}

**TO:**
{Permitting notes: These emissions units are regulated under Acid Rain, Phase II; Rule 62-210.300, F.A.C., Permits Required; Power Plant Siting Certification No. PA 74-01 ordered 10/16/74, and the modified conditions of PA 74-01 modified 5/20/80, 3/15/84, 7/16/91 and 5/28/92; and, Air Construction Permit No. 1070014-003-AC. ...}

**3. Specific Condition A.3. (Subsection A., Emission Units –003 to –006, Combustion Turbines) will be changed as follows:**

**FROM:**
**A.3.** Methods of Operation - Fuels. The combustion turbines shall only be fired with number 2 or number 6 fuel oil or with natural gas.
[Rule 62-213.410, F.A.C.; and, PPSC PA 74-01 condition 1.B.(i)]

**TO:**
**A.3.** Methods of Operation.
a. Fuels. The combustion turbines shall only be fired with number 2 or number 6 fuel oil or with natural gas.
b. Inlet Foggers. The four inlet foggers installed at the compressor inlet to each of the four combined cycle combustion turbines may operate up to 40,960 degree F-hours per year in aggregate (average 10,240 degree F-hours per unit per year).

The permittee shall monitor both the hours of operation for the inlet foggers and the degrees of cooling afforded by the inlet foggers. Computation of the degree-hour will be performed as follows:

Degree-hours = # hours inlet fogger operating time X degrees F of cooling

Degrees of Cooling shall be calculated by subtracting the fogged compressor inlet air temperature from the unfogged compressor inlet temperature (upstream of the fogger). The above calculation shall be performed for each hour of fogger operation. Calculation records shall be maintained on the plant site and made available for inspection upon request.

For each hour of oil operation on any combustion turbine during a calendar year, the allowable aggregate total inlet fogger operating degree-hour shall be reduced by 1.27 degree F-hours.
[Rule 62-213.410, F.A.C.; PPSC PA 74-01 condition 1.B.(i); and, 1070014-003-AC]

**4. Appendix TV-1, Title V Conditions, is hereby updated to Appendix TV-3. Appendix TV-3 incorporates Rule changes promulgated since the Initial Title V Air Operation Permit was issued. All references to TV-1 are changed to TV-3 as follows:**

a. Placard Page
**FROM:**
**Referenced attachments made a part of this permit revision:**
Appendix U-1, List of Unregulated Emissions Units and/or Activities
Appendix I-1, List of Insignificant Emissions Units and/or Activities
Appendix T, Heat Input vs. Ambient Temperature Curves
Appendix TV-1, Title V Conditions (version dated 12/02/97)

**TO:**
**Referenced attachments made a part of this permit revision:**
Appendix U-1, List of Unregulated Emissions Units and/or Activities
Appendix I-1, List of Insignificant Emissions Units and/or Activities
Appendix T, Heat Input vs. Ambient Temperature Curves
Appendix TV-3, Title V Conditions (version dated 04/30/99)

b. Section II. Facility-Wide Conditions.
**FROM:**
**1.** APPENDIX TV-1, TITLE V CONDITIONS, is a part of this permit.
{Permitting note: APPENDIX TV-1, 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.}

**TO:**
**1.** APPENDIX TV-3, TITLE V CONDITIONS, is a part of this permit.
{Permitting note: APPENDIX TV-3, 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.}

**FROM:**
**10.** 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-1, Title V Conditions}
[Rule 62-214.420(11), F.A.C.]

**TO:**
**10.** 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-3, Title V Conditions}
[Rule 62-214.420(11), F.A.C.]

{Permitting Note: The annual statement of compliance must reflect the facility's operation and compliance prior to a "Permit Revision's effective date" and the facility's operation and compliance including and after a "Permit Revision's effective date".}

**5. Facility-Wide Condition 4. is hereby changed to the "revised" Risk Management Plan language as follows:**

**FROM:**
**4.** Prevention of Accidental Releases (Section 112(r) of CAA). If required by 40 CFR 68, the permittee shall submit to the implementing agency:
a. a risk management plan (RMP) when, and if, such requirement becomes applicable; and
b. certification forms and/or RMPs according to the promulgated rule schedule.
[40 CFR 68]

**TO:**

**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 ; 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]

**6. Facility-Wide Condition 11. is hereby divided into two conditions and updated with "new" DEP and EPA information as follows:**

**FROM:**

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

Department of Environmental Protection, Northeast District Office
Air Section
7825 Baymeadows Way, Suite 200B
Jacksonville, FL 32256-7590
Telephone: 904/448-4310 Fax: 904/448-4363

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
Operating Permits Section
61 Forsyth Street
Atlanta, GA 30303
Phone: 404/562-9099 Fax: 404/562-9095

**TO:**

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

Department of Environmental Protection, Northeast District Office
Air Section
7825 Baymeadows Way, Suite 200B
Jacksonville, FL 32256-7590
Telephone: 904/448-4300 Fax: 904/448-4363

**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 & EPCRA Enforcement Branch
Air Enforcement Section
61 Forsyth Street
Atlanta, GA 30303
Phone: 404/562-9155 Fax: 404/562-9163 or 404/562-9164

Florida Power & Light Company
Putnam Plant
**Facility ID No.:** 1070014
Putnam County

Title V Air Operation Permit Revision
**PROPOSED Permit Revision No.:** 1070014-004-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

Title V Air Operation Permit Revision
**PROPOSED Permit Revision No.:** 1070014-004-AV

## Table of Contents

# Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

**Permittee:**
Florida Power & Light
392 U.S. Highway 17 South
East Palatka, FL

**PROPOSED Permit Revision No.:** 1070014-004-AV
**Facility ID No.:** 1070014
**SIC Nos.:** 49 , 4911
**Project:** Title V Air Operation Permit Revision

This permit revision is for the operation of the Putnam Plant. This facility is located at US 17 South, East Palatka, Putnam County; UTM Coordinates: Zone 17, 443368.85 km East and 3277807.32 km North; Latitude: 29° 37' 44" North and Longitude: 81° 35' 6" West.

STATEMENT OF BASIS: This Title V air operation permit revision is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 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 revision:**
Appendix U-1, List of Unregulated Emissions Units and/or Activities
Appendix I-1, List of Insignificant Emissions Units and/or Activities
Appendix T, Heat Input vs. Ambient Temperature Curves
Appendix TV-3, Title V Conditions (version dated 04/30/99)
Appendix SS-1, Stack Sampling Facilities (version dated 10/07/96)
Table 297.310-1, Calibration Schedule (version dated 10/07/96)
Figure 1 - Summary Report-Gaseous and Opacity Excess Emission and Monitoring System Performance Report (version dated 7/96)
Phase II Acid Rain Application/Compliance Plan received 12/6/95

**Title V/IV Permit Effective Date:** January 1, 1999
**Permit Revision Effective Date:**
**Renewal Application Due Date:** July 5, 2003
**Expiration Date:** December 31, 2003

Howard L. Rhodes, Director
Division of Air Resources Management

HLR/sms/wa

**Section I. Facility Information.**

**Subsection A. Facility Description.**

The facility consists of four combustion turbines, each with an associated inlet fogger and heat recovery steam generator equipped with duct burners, an auxiliary boiler, and unregulated emissions units. Each combustion turbine is a Westinghouse unit rated at 70 MW generating capacity (at 85 degrees F ambient temperature), with a maximum heat input for natural gas and fuel oil of 968.3 mmBtu/hr and 910.6 mmBtu/hr, respectively. The duct burners for each HRSG are rated at a maximum heat input of 250 mmBtu/hr, and are fired with natural gas and number 2 fuel oil. The auxiliary boiler is manufactured by VA-Power and has a maximum heat input for natural gas and number 2 fuel oil of 16.275 mmBtu/hr and 14.28 mmBtu/hr, respectively.

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

Based on the initial Title V permit application received June 12, 1996 and the Title V permit revision application received September 28, 1999, this facility is a major source of hazardous air pollutants (HAPs).

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

| E.U. ID No. | Brief Description |
|---|---|
| 003 | Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG11. |
| 004 | Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG12. |
| 005 | Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG21. |
| 006 | Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG22. |
| 007 | Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG11. |
| 008 | Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG12. |
| 009 | Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG21. |
| 010 | Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG22. |
| 011 | Auxiliary Boiler. |

{Note: The above emissions unit grouping accommodates the acid rain grouping.}

| Unregulated Emissions Units and/or Activities | |
|---|---|
| 012 | Emergency Diesel Generator, Miscellaneous Mobile Equipment and Internal Combustion Engines |
| 013 | Painting of Plant Equipment and Non-halogenated Solvent Cleaning Operations |

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

These documents are on file with the permitting authority:
Initial Title V Permit Application received June 12, 1996.
Additional Information Request dated May 13, 1997.
Additional Information Response received August 15, 1997.
Letter dated August 26, 1997, changing the Responsible Official.
DEP Letter to US EPA Region 4 dated March 10, 1998
US EPA Region 4 letter to DEP received March 25, 1998
Initial Title V Air Operation Permit issued June 17, 1998.
Administrative Permit Correction to Initial Title V Air Operation Permit issued July 27, 1998.
Title V Permit Revision Application received September 28, 1999

## Section II. Facility-wide Conditions.

**The following conditions apply facility-wide:**

1. APPENDIX TV-3, TITLE V CONDITIONS, is a part of this permit.
{Permitting note: APPENDIX TV-3, TITLE V CONDITIONS, is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided a copy when requested or otherwise appropriate.}

2. **Not Federally Enforceable.** General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. The permittee shall not cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
[Rule 62-296.320(2), F.A.C.]

3. General Particulate Emission Limiting Standards. General Visible Emissions Standard. Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C.
[Rule 62-296.320(4)(b)1. & 4, F.A.C.]

4. Prevention of Accidental Releases (Section 112(r) of CAA).
a. The permittee shall submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center when, and if, such requirement becomes applicable ; 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. **Not Federally Enforceable.** 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 owner or operator shall:

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.; Proposed by applicant in the initial Title V permit application received June 12, 1996]

**8. Not Federally Enforceable.** No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity without taking reasonable precautions to prevent such emissions. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:

a. The facility constructs temporary sandblasting enclosures when necessary, in order to perform sandblasting on fixed plant equipment.
b. Maintenance of paved areas as needed.
c. Regular mowing of grass and care of vegetation.
d. Limiting access to plant property by unnecessary vehicles.
e. Bagged chemical products are stored in weather-tight buildings until they are used.
f. Spills of powdered chemical products are cleaned up as soon as practicable.
g. Vehicles are restricted to slow speeds on the plant site.

[Rule 62-296.320(4)(c)2., F.A.C.; Proposed by applicant in the initial Title V permit application received June 12, 1996]

**9.** When appropriate, any recording, monitoring or reporting requirements that are time-specific shall be in accordance with the effective date of this 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), F.A.C., shall be submitted within 60 (sixty) days after the end of the calendar year.
{See condition No. 51., Appendix TV-3, Title V Conditions}
[Rule 62-214.420(11), F.A.C.]

{Permitting note: The statement must reflect the facility's operation and compliance prior to a "Permit Revision's effective date" and the facility's operation and compliance including and after a "Permit Revision's effective date".}

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

Department of Environmental Protection, Northeast District Office
Air Section
7825 Baymeadows Way, Suite 200B
Jacksonville, FL 32256-7590
Telephone: 904/448-4300 Fax: 904/448-4363

**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 & EPCRA Enforcement Branch
Air Enforcement Section
61 Forsyth Street
Atlanta, GA 30303
Phone: 404/562-9155 Fax: 404/562-9163 or 404/562-9164

{Note: In this permit, citation of "PPSC PA 74-01" shall refer to Power Plant Siting Certification PA 74-01, ordered 10/16/74 and modified 5/20/80, 3/15/84, 7/16/91 and 5/28/92}

**Section III. Emissions Units and Conditions.**

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

| | |
|---|---|
| 003 | Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG11. This emissions unit consists of a Westinghouse combustion turbine, rated at 70 MW generating capacity (at 85 degrees F ambient temperature). Heat input for this unit may vary at different ambient temperatures in accordance with the curves attached as Appendix T of this permit. (As an example, maximum heat input for natural gas or fuel oil at 85 degrees F ambient temperature is 968.3 mmBtu/hr and 910.6 mmBtu/hr, respectively.) |
| 004 | Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG12. This emissions unit consists of a Westinghouse combustion turbine, rated at 70 MW generating capacity (at 85 degrees F ambient temperature). Heat input for this unit may vary at different ambient temperatures in accordance with the curves attached as Appendix T of this permit. (As an example, maximum heat input for natural gas or fuel oil at 85 degrees F ambient temperature is 968.3 mmBtu/hr and 910.6 mmBtu/hr, respectively.) |
| 005 | Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG21. This emissions unit consists of a Westinghouse combustion turbine, rated at 70 MW generating capacity (at 85 degrees F ambient temperature). Heat input for this unit may vary at different ambient temperatures in accordance with the curves attached as Appendix T of this permit. (As an example, maximum heat input for natural gas or fuel oil at 85 degrees F ambient temperature is 968.3 mmBtu/hr and 910.6 mmBtu/hr, respectively.) |
| 006 | Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG22. This emissions unit consists of a Westinghouse combustion turbine, rated at 70 MW generating capacity (at 85 degrees F ambient temperature). Heat input for this unit may vary at different ambient temperatures in accordance with the curves attached as Appendix T of this permit. (As an example, maximum heat input for natural gas or fuel oil at 85 degrees F ambient temperature is 968.3 mmBtu/hr and 910.6 mmBtu/hr, respectively.) |

{Permitting notes: These emissions units are regulated under Acid Rain, Phase II; Rule 62-210.300, F.A.C., Permits Required; Power Plant Siting Certification No. PA 74-01 ordered 10/16/74, and the modified conditions of PA 74-01 modified 5/20/80, 3/15/84, 7/16/91 and 5/28/92; and, Air Construction Permit No. 1070014-003-AC. Based on information submitted by the applicant in the Title V application, these emissions units are not subject to 40 CFR 60, Subpart GG, Standards of Performance for New Stationary Gas Turbines. Each combustion turbine is exhausted through a heat recovery steam generator. Inlet foggers installed at the compressor inlet to each of the four CTs reduce the turbine inlet air temperature. The temperature reduction improves the heat rate and increases power due to the cooler/denser inlet air. Emissions units 003 and 004 began commercial operation in 1978. Emissions units 005 and 006 began commercial operation in 1977.}

**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 |
|---|---|---|
| 003, 004, 005, 006 | (a) | Natural Gas |
| | (a) | Fuel Oil |

a Heat input is limited at any given ambient temperature in accordance with the curves attached as Appendix T of this permit.

{Note: As an example, maximum heat input for natural gas or fuel oil at 85 degrees F ambient temperature is 968.3 mmBtu/hr and 910.6 mmBtu/hr, respectively.}

{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.}
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

**A.2.** Emissions Unit Operating Rate Limitation After Testing. See specific condition **D.9.**
[Rule 62-297.310(2), F.A.C.]

**A.3.** Methods of Operation.
a. Fuels. The combustion turbines shall only be fired with number 2 or number 6 fuel oil or with natural gas.
b. Inlet Foggers. The four inlet foggers installed at the compressor inlet to each of the four combined cycle combustion turbines may operate up to 40,960 degree F-hours per year in aggregate (average 10,240 degree F-hours per unit per year).

The permittee shall monitor both the hours of operation for the inlet foggers and the degrees of cooling afforded by the inlet foggers. Computation of the degree-hour will be performed as follows:

Degree-hours = # hours inlet fogger operating time X degrees F of cooling

Degrees of Cooling shall be calculated by subtracting the fogged compressor inlet air temperature from the unfogged compressor inlet temperature (upstream of the fogger). The above calculation shall be performed for each hour of fogger operation. Calculation records shall be maintained on the plant site and made available for inspection upon request.

For each hour of oil operation on any combustion turbine during a calendar year, the allowable aggregate total inlet fogger operating degree-hour shall be reduced by 1.27 degree F-hours.
[Rule 62-213.410, F.A.C.; PPSC PA 74-01 condition 1.B.(i); and, 1070014-003-AC]

**Emission Limitations and Standards**

**A.4.** Sulfur Dioxide - Sulfur Content. The fuel oil sulfur content shall not exceed 0.7 percent by weight. See specific condition **A.6.**
[Rules 62-4.070(3) and 62-213.440, F.A.C., and PPSC PA 74-01 condition 1.B.(i)]

**A.5.** Visible Emissions. Visible emissions shall not exceed 20% opacity, except for one 6-minute period per hour during which opacity shall not exceed 27%.
[Rules 62-4.070(3) and 62-213.440, F.A.C., and PPSC PA 74-01 condition 1.B.(ii)]

**Test Methods and Procedures**

**A.6.** Sulfur Dioxide - Sulfur Content. The permittee shall demonstrate compliance with the liquid fuel sulfur limit by means of a fuel analysis provided by the vendor upon each fuel delivery. See specific conditions **A.4. and A.7.**
[Rules 62-213.440 and 62-296.406(3), F.A.C.]

**A.7.** Fuel Sampling & Analysis - Sulfur. The fuel sulfur content, percent by weight, for liquid fuels shall be evaluated using either ASTM D2622-94, ASTM D4294-90(95), ASTM D1552-95, ASTM D1266-91, or both ASTM D4057-88 and ASTM D129-95 (or latest editions).
[Rules 62-4.070(3), 62-213.440 and 62-297.440, F.A.C.]

**A.8.** Visible Emissions. The permittee shall demonstrate compliance with the visible emissions limit by DEP Method 9. See specific condition **D.6.**
[Rules 62-4.070(3) and 62-213.440, F.A.C.]

**Monitoring of Operations**

**A.9.** Annual Tests Required - VE. Except as provided in specific conditions **D.4** through **D.5** of this permit, emission testing for visible emissions shall be performed annually, no later than September 30th of each 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.10.** Wind Restriction and Monitoring. The owner or operator shall burn fuel oil containing no more than 0.50% sulfur (by weight) when sustained winds exceed 20 miles per hour for any continuous period of three hours or longer. The owner or operator shall measure wind velocity and direction, using recognized methods and procedures, at hourly intervals in the plant vicinity, only for those hours during which any combustion turbine at the plant burns fuel oil containing more than 0.50% sulfur (by weight). The owner or operator shall quarterly report wind data, or shall report that no fuel oil containing more than 0.50% sulfur (by weight) was burned, no later than the thirtieth day following the end of each calendar quarter.
[PPSC PA 74-01, condition 2]

**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.]

**Common Conditions**

**A.13.** These emissions units are also subject to conditions **D.1** through **D.13** contained in **Subsection D. Common Conditions.**

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

| | |
|---|---|
| 007 | Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG11. This emissions unit consists of duct burners for one heat recovery steam generator. Each HRSG is associated with one combustion turbine. Each HRSG's duct burners have a maximum heat input for natural gas or number 2 fuel oil of 250 mmBtu/hr. |
| 008 | Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG12. This emissions unit consists of duct burners for one heat recovery steam generator. Each HRSG is associated with one combustion turbine. Each HRSG's duct burners have a maximum heat input for natural gas or number 2 fuel oil of 250 mmBtu/hr. |
| 009 | Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG21. This emissions unit consists of duct burners for one heat recovery steam generator. Each HRSG is associated with one combustion turbine. Each HRSG's duct burners have a maximum heat input for natural gas or number 2 fuel oil of 250 mmBtu/hr. |
| 010 | Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG22. This emissions unit consists of duct burners for one heat recovery steam generator. Each HRSG is associated with one combustion turbine. Each HRSG's duct burners have a maximum heat input for natural gas or number 2 fuel oil of 250 mmBtu/hr. |

{Permitting notes: These emissions units are regulated under Rule 62-210.300, F.A.C., Permits Required and Power Plant Siting Certification No. PA 74-01 ordered 10/16/74, and the modified conditions of PA 74-01 modified 5/20/80, 3/15/84, 7/16/91 and 5/28/92. These emissions units are subject to 40 CFR 60, Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. Each heat recovery steam generator has two stacks that exhaust emissions from the associated combustion turbine and the duct burners. Emissions units 007 and 008 began commercial operation in 1978. Emissions units 009 and 010 began commercial operation in 1977.}

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

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

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

| Unit No. | mmBtu/hr Heat Input | Fuel Type |
|---|---|---|
| 007, 008, 009, 010 | 250 | Natural Gas |
| | 250 | Fuel Oil |

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

{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.}

**B.2.** Emissions Unit Operating Rate Limitation After Testing. See specific condition **D.9.**
[Rule 62-297.310(2), F.A.C.]

**B.3.** Methods of Operation - Fuels. The duct burners shall only be fired with number 2 fuel oil or with natural gas.
[Rule 62-213.410, F.A.C., PPSC PA 74-01 condition 1.C.(i)]

**Emission Limitations and Standards**

**B.4.** Sulfur Dioxide - Sulfur Content. The fuel oil sulfur content shall not exceed 0.5 percent by weight. See specific condition **B.7**.
[Rules 62-4.070(3) and 62-213.440, F.A.C., PPSC PA 74-01 condition 1.C.(i), and 40 CFR 60.42b]

**B.5.** Visible Emissions. Visible emissions shall not exceed 20% opacity (6-minute average), except for one 6-minute period per hour during which opacity shall not exceed 27%. The opacity standards apply at all times, except during periods of startup, shutdown or malfunction.
[Rules 62-4.070(3) and 62-213.440, F.A.C., PPSC PA 74-01 condition 1.C.(ii)(a), and 40 CFR 60.43b and 60.46b(a)]

**B.6.** Nitrogen Oxides. Nitrogen oxide emissions (expressed as $NO_2$) shall not exceed 0.20 lb/mmBtu while burning natural gas and distillate oil. The nitrogen oxide standards apply at all times including periods of startup, shutdown, or malfunction.
[40 CFR 60.44b and PPSC PA 74-01 (modification of 5/28/92)]

**Test Methods and Procedures**

**B.7.** Sulfur Dioxide - Sulfur Content. The permittee shall demonstrate compliance with the liquid fuel sulfur limit by maintaining fuel receipts as described in 40 CFR 60.49b(r). See specific conditions **B.4. and B.14**.
[Rules 62-213.440 and 62-296.406(3), F.A.C., and 40 CFR 60.42b]

**B.8.** VE Test Methods. To determine compliance with the opacity limits, the owner or operator shall conduct tests using EPA Method 9.
[40 CFR 60.46b(d)(7)]

**B.9.** Test Methods For Nitrogen Oxides. Compliance with the nitrogen oxides emission limit shall be determined through testing using EPA reference methods 7E and 3A, of 40 CFR part 60 appendix A.
[40 CFR 60.46b, PPSC PA 74-01 (modification of 5/28/92)]
{Note: PPSC PA 74-01 (modification of 5/28/92) allows use of EPA methods 7E and 3A instead of EPA method 20.}

**Monitoring of Operations**

**B.10.** Emission Tests Required - VE and NOx. Except as provided in specific conditions **D.4** through **D.5** of this permit, emission testing shall be conducted as follows: Emission testing for visible emissions shall be performed annually. Emission testing for nitrogen oxides shall be performed prior to renewal, except that an annual test for nitrogen oxides shall be performed each year that fuel oil is fired in these units for more than 400 hours. Testing shall be completed no later than September 30th of each year required, 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.]

**B.11.** Emission Monitoring For VE. Prior to burning fuel oil in these emissions units, the owner or operator shall install, calibrate, maintain, and operate a continuous monitoring system for measuring the opacity of emissions discharged to the atmosphere and record the output of the system. This system shall thenceforth be operated whenever fuel oil is burned in these emissions units.
[40 CFR 60.48b(a)]

**B.12.** CEMS Required by Power Plant Siting. The owner or operator shall maintain a continuous emission monitoring system (CEMS) for opacity and nitrogen oxides on one of the paired stacks for each combined cycle unit.
{The PPSC requires monitors on one stack each of CT/HRSG 1x and 2x, for a total of two stacks that must be monitored. The owner currently operates opacity monitors to satisfy the PPSC requirement to operate the CEMS for opacity. The NOx monitors installed and maintained pursuant to 40 CFR 75 satisfy the PPSC requirement to operate the CEMS for NOx.}
[Rule 62-213.440, F.A.C., PPSC PA 74-01 condition 4]

**Reporting And Record Keeping Requirements**

**B.13.** Pursuant to 40 CFR 60.49b Reporting And Record Keeping Requirements.

The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for distillate oil and natural gas for each calendar quarter. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.

The owner or operator shall maintain records of opacity (required by NSPS whenever fuel oil is burned in these emissions units. See condition B.11 of this permit).

The owner or operator shall maintain records of the following information for each steam generating unit operating day:

(1) Calendar date.
(2) The average hourly nitrogen oxides emission rates (expressed as NO2) (lb/million Btu heat input) measured or predicted.
(3) The 30-day average nitrogen oxides emission rates (lb/million Btu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days.
(4) Identification of the steam generating unit operating days when the calculated 30-day average nitrogen oxides emission rates are in excess of the nitrogen oxides emissions standards under 40 CFR 60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken.

(5) Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken.
(6) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data.
(7) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted.

The owner or operator is required to submit excess emission reports for any calendar quarter during which there are excess emissions from the affected facility. If there are no excess emissions during the calendar quarter, the owner or operator shall submit a report semiannually stating that no excess emissions occurred during the semiannual reporting period. For the purpose of the opacity limitation, excess emissions are defined as all 6-minute periods during which the average opacity exceeds the opacity standards.
[40 CFR 60.49b(d), (f), (g)(1)-(7) and (h)]

**B.14.** Fuel Receipts Required. The owner or operator of an affected facility who elects to demonstrate that the affected facility combusts only very low sulfur oil shall obtain and maintain at the affected facility fuel receipts from the fuel supplier which certify that the oil meets the definition of distillate oil as defined in 40 CFR 60.41b:

> Distillate oil means fuel oils that contain 0.05 weight percent nitrogen or less and comply with the specifications for fuel oil numbers 1 and 2, as defined by the American Society of Testing and Materials in ASTM D396-78, Standard Specifications for Fuel Oils (incorporated by reference-see 40 CFR 60.17).
>
> Very low sulfur oil means an oil that contains no more than 0.5 weight percent sulfur or that, when combusted without sulfur dioxide emission control, has a sulfur dioxide emission rate equal to or less than 215 ng/J (0.5 lb/million Btu) heat input.

For the purposes of this section, the oil need not meet the fuel nitrogen content specification in the definition of distillate oil. Quarterly reports shall be submitted to the Department certifying that only very low sulfur oil meeting this definition was combusted in the affected facility during the preceding quarter.
[40 CFR 60.45b, 60.47b and 60.49b(r)]

**Common Conditions**

**B.15.** These emissions units are also subject to conditions **D.1** through **D.13** contained in **Subsection D. Common Conditions.**

**B.16.** These emissions units are also subject to conditions **E.1** through **E.5** contained in **Subsection E. NSPS Common Conditions**, except as specified in that section.

**Subsection C. This section addresses the following emissions unit.**

| | |
|---|---|
| 011 | This emissions unit consists of an auxiliary boiler is manufactured by VA-Power with a maximum heat input for natural gas and number 2 fuel oil of 16.275 mmBtu/hr and 14.28 mmBtu/hr, respectively. |

{Permitting notes: This emissions unit is regulated under Rule 62-210.300, F.A.C., Permits Required. This emissions unit is subject to 40 CFR 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units. Emissions unit 011 began commercial operation in 1993. The unit was previously regulated under Power Plant Siting Certification No. PA 74-01 ordered 10/16/74, and the modified conditions of PA 74-01 modified 5/20/80, 3/15/84, 7/16/91 and 5/28/92. However, the only applicable condition was in conflict with the NSPS and has been superseded by this permit.}

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

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

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

| Unit No. | mmBtu/hr Heat Input | Fuel Type |
|---|---|---|
| 011 | 16.275 | Natural Gas |
| | 14.28 | Number 2 Fuel Oil |

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

**C.2.** Emissions Unit Operating Rate Limitation After Testing. See specific condition **D.9.**
[Rule 62-297.310(2), F.A.C.]

**C.3.** Methods of Operation - Fuels. The auxiliary boiler shall only be fired with number 2 fuel oil or with natural gas.
[Rule 62-213.410, F.A.C.]

**Emission Limitations and Standards**

**C.4.** Pursuant to 40 CFR 60.42c Standard For Sulfur Dioxide.

The owner or operator shall not combust oil in the affected facility that contains greater than 0.5 weight percent sulfur. Compliance with the fuel oil sulfur limit shall be determined based on a certification from the fuel supplier, as described under 40 CFR 60.48c(f)(1) (see specific condition **C.7.**). The fuel oil sulfur limit applies at all times, including periods of startup, shutdown, and malfunction.
[40 CFR 60.42c(d), (h), (i) and (j)]

**Monitoring of Operations**

**C.5.** Emission Monitoring For Sulfur Dioxide.

As an alternative to operating a CEMS at the outlet of the steam generating unit, the owner or operator shall determine the average $SO_2$ emission rate by sampling the fuel prior to combustion. Fuel sampling shall be conducted as follows:

> As an alternative fuel sampling procedure for affected facilities combusting oil, oil samples may be collected from the fuel tank for each steam generating unit immediately after the fuel tank is filled and before any oil is combusted. The owner or operator of the affected facility shall analyze the oil sample to determine the sulfur content of the oil. If a partially empty fuel tank is refilled, a new sample and analysis of the fuel in the tank would be required upon filling. Results of the fuel analysis taken after each new shipment of oil is received shall be used as the daily value when calculating the 30-day rolling average until the next shipment is received. If the fuel analysis shows that the sulfur content in the fuel tank is greater than 0.5 weight percent sulfur, the owner or operator shall ensure that the sulfur content of subsequent oil shipments is low enough to cause the 30-day rolling average sulfur content to be 0.5 weight percent sulfur or less.

[40 CFR 60.46c(d)(2)]

**Reporting And Record Keeping Requirements**

**C.6.** Pursuant to 40 CFR 60.48c Reporting And Record Keeping Requirements.

For any period in which fuel oil is combusted, the owner or operator shall submit quarterly reports to the Department. Each subsequent quarterly report shall be postmarked by the 30th day following the end of the reporting period.
The owner or operator shall keep records and submit quarterly reports including the following information related to the combustion of fuel oil, as applicable.

(1) Calendar dates covered in the reporting period.
(2) Each 30-day average $SO_2$ emission rate (lb/million Btu), or 30-day average sulfur content (weight percent), calculated during the reporting period, ending with the last 30-day period in the quarter; reasons for any noncompliance with the emission standards; and a description of corrective actions taken.
(3) Each 30-day average percent of potential $SO_2$ emission rate calculated during the reporting period, ending with the last 30-day period in the quarter; reasons for any noncompliance with the emission standards; and a description of corrective actions taken.
(4) Identification of any steam generating unit operating days for which $SO_2$ or diluent (oxygen or carbon dioxide) data have not been obtained by an approved method for at least 75 percent of the operating hours; justification for not obtaining sufficient data; and a description of corrective actions taken.
(5) Identification of any times when emissions data have been excluded from the calculation of average emission rates; justification for excluding data; and a description of corrective actions taken if data have been excluded for periods other than those during which oil was not combusted in the steam generating unit.

(6) Identification of the F factor used in calculations, method of determination, and type of fuel combusted.
(7) Identification of whether averages have been obtained based on CEMS rather than manual sampling methods.
(11) If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described under paragraph (f)(1) of this section, as applicable. In addition to records of fuel supplier certifications, the quarterly report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the quarter.

[40 CFR 60.48c(d), (e)(1)-(7) and (e)(11)]

**C.7.** Fuel Supplier Certification and Fuel Records. The owner or operator shall maintain records of fuel supplier certification. Fuel supplier certification shall include the following information:
(i) The name of the oil supplier; and
(ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil:

Distillate oil means fuel oil that complies with the specifications for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396-78, "Standard Specification for Fuel Oils" (incorporated by reference-see 40 CFR 60.17).

The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day.
[40 CFR 60.48c(f)(1) and (g)]

**Common Conditions**

**C.8.** These emissions units are also subject to conditions **D.1** through **D.13** contained in **Subsection D. Common Conditions.**

**C.9.** These emissions units are also subject to conditions **E.1** through **E.5** contained in **Subsection E. NSPS Common Conditions**, except as specified in that section.

**Subsection D. Common Conditions.**

| E.U. ID No. | Brief Description |
|---|---|
| 003, 004, 005, 006 | Combustion turbines for combined cycle heat recovery steam generators, HRSG11 through HRSG22. |
| 007, 008, 009, 010 | Duct burners for combined cycle heat recovery steam generators, HRSG11 through HRSG22. |
| 011 | Auxiliary boiler manufactured by VA-Power. |

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

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

**D.1.** 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.}

**D.2.** 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**

**D.3.** 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.]

**D.4.** 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.
{Note: The provisions of this condition are numbered according to the rule. Provisions of the rule which are not applicable to this facility have been omitted, but the numbering of the rule has been preserved.}

(a) General Compliance Testing.

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

a. Did not operate; or

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

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

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

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

8. Any combustion turbine that does not operate for more than 400 hours per year shall conduct a visible emissions compliance test once per each five-year period, coinciding with the term of its air operation permit.

9. The owner or operator shall notify the 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., SIP Approved]

**D.5.** 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 62-4.070(3), F.A.C.]

**Test Methods and Procedures**

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

**D.6.** 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.]

**D.7.** 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.]

**D.8.** 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.]

**D.9.** 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. For emissions units 003, 004, 005 and 006, the maximum heat input (permitted capacity) at any given ambient temperature shall be as described by the curves attached as Appendix T of this 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.]

**D.10.** 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.
(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.
[Rule 62-297.310(4), F.A.C.]

**D.11.** 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.]

**Record Keeping and Reporting Requirements**

**D.12.** Malfunctions - Notification. In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the DEP Northeast District's Air Section in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the DEP Northeast District's Air Section.
[Rule 62-210.700(6), F.A.C.]

**D.13.** Test Reports.
(a) The owner or operator of an emissions unit for which a compliance test is required shall file a report with the DEP Northeast District's Air Section on the results of each such test.
(b) The required test report shall be filed with the DEP Northeast District's 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 DEP Northeast District's 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.]

**Subsection E. NSPS Common Conditions.**

| E.U. ID No. | Brief Description |
|---|---|
| 007, 008, 009, 010 | Duct burners for combined cycle heat recovery steam generators, HRSG11 through HRSG22. |
| 011 | Auxiliary boiler manufactured by VA-Power. |

{Note: The emissions units above are subject to the following conditions from 40 CFR 60 Subpart A, General Provisions. For the purposes of Rule 62-204.800(7), F.A.C., the definitions contained in the various provisions of 40 CFR 60, shall apply except that the term "Administrator" when used in 40 CFR 60, shall mean the Secretary or the Secretary's designee. The 40 CFR 60 term "owner and operator," means "permittee" in this permit.}

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

**E.1.** Pursuant to 40 CFR 60.7 Notification And Record Keeping.

(a) Any owner or operator subject to the provisions of this part shall furnish the Administrator written notification as follows:
(4) A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice.
(b) The owner or operator subject to the provisions of this part shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.
(c) **(This section applies to emissions units 007, 008, 009, and 010 only in the event they are fired with fuel oil. This section does not apply to emissions unit 011.)** The owner or operator required to install a continuous monitoring system (CMS) or monitoring device shall submit an excess emissions and monitoring systems performance report (excess emissions are defined in applicable subparts) and/or a summary report form (see 40 CFR 60.7(d)) to the Administrator semiannually, except when: more frequent reporting is specifically required by an applicable subpart; or the CMS data are to be used directly for compliance determination, in which case quarterly reports shall be submitted; or the Administrator, on a case-by-case basis, determines that more frequent reporting is necessary to accurately assess the compliance status of the source. All reports shall be postmarked by the 30th day following the end of each calendar half (or quarter, as appropriate). Written reports of excess emissions shall include the following information:
(1) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions. The process operating time during the reporting period.

(2) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted.
(3) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments.
(4) When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report.
(d) The summary report form shall contain the information and be in the format shown in Figure 1 unless otherwise specified by the Administrator. One summary report form shall be submitted for each pollutant monitored at each affected facility.
(1) If the total duration of excess emissions for the reporting period is less than 1 percent of the total operating time for the reporting period and CMS downtime for the reporting period is less than 5 percent of the total operating time for the reporting period, only the summary report form shall be submitted and the excess emission report described in 40 CFR 60.7(c) need not be submitted unless requested by the Administrator.
(2) If the total duration of excess emissions for the reporting period is 1 percent or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, the summary report form and the excess emission report described in 40 CFR 60.7(c) shall both be submitted.

*[See Attached Figure 1-Summary Report-Gaseous and Opacity Excess Emission and Monitoring System Performance]*

(e)(1) Notwithstanding the frequency of reporting requirements specified in paragraph (c) of this section, an owner or operator who is required by an applicable subpart to submit excess emissions and monitoring systems performance reports (and summary reports) on a quarterly (or more frequent) basis may reduce the frequency of reporting for that standard to semiannual if the following conditions are met:
(i) For one full year (e.g., four quarterly or twelve monthly reporting periods) the affected facility's excess emissions and monitoring systems reports submitted to comply with a standard under this part continually demonstrate that the facility is in compliance with the applicable standard;
(ii) The owner or operator continues to comply with all recordkeeping and monitoring requirements specified in this subpart and the applicable standard; and
(iii) The Administrator does not object to reduced frequency of reporting for the affected facility, as provided in paragraph (e)(2) of this section.
(2) The frequency of reporting of excess emissions and monitoring systems performance (and summary) reports may be reduced only after the owner or operator notifies the Administrator in writing of his or her intention to make such a change and the Administrator does not object to the intended change. In deciding whether to approve a reduced frequency of reporting, the Administrator may review information concerning the source's entire previous performance history during the required recordkeeping period prior to the intended change, including performance test results, monitoring data, and evaluations of an owner or operator's conformance with operation and maintenance requirements. Such information may be used by the Administrator to make a judgment about the source's potential for noncompliance in the future. If the Administrator disapproves the owner or operator's request to reduce the frequency of reporting, the Administrator will notify the owner or operator in writing within 45 days after

receiving notice of the owner or operator's intention. The notification from the Administrator to the owner or operator will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted.
(3) As soon as monitoring data indicate that the affected facility is not in compliance with any emission limitation or operating parameter specified in the applicable standard, the frequency of reporting shall revert to the frequency specified in the applicable standard, and the owner or operator shall submit an excess emissions and monitoring systems performance report (and summary report, if required) at the next appropriate reporting period following the noncomplying event. After demonstrating compliance with the applicable standard for another full year, the owner or operator may again request approval from the Administrator to reduce the frequency of reporting for that standard as provided for in paragraphs (e)(1) and (e)(2) of this section.
(f) The owner or operator subject to the provisions of this part shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part recorded in a permanent form suitable for inspection. The file shall be retained for at least five years following the date of such measurements, maintenance, reports, and records.
[40 CFR 60.7 and Rule 62-213.440(1)(b)2.b., F.A.C.]

**E.2.** Pursuant to 40 CFR 60.8 Performance Tests.

(b) Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart, except as otherwise authorized by an approved alternative method.
(c) Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.
(f) Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs.
[40 CFR 60.8]

**E.3.** Pursuant to 40 CFR 60.11 Compliance With Standards And Maintenance Requirements.

(a) Compliance with standards in this part, other than opacity standards, shall be determined only by performance tests established by 40 CFR 60.8, unless otherwise specified in the applicable standard.
(b) Compliance with opacity standards in this part shall be determined by conducting observations in accordance with Reference Method 9 in appendix A of this part, any alternative method that is approved by the Administrator, or as provided in 40 CFR 60.11(e)(5).
(c) The opacity standards set forth in this part shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard.
(d) At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
(5) **(This paragraph applies to emissions units 007, 008, 009, and 010 only in the event they are fired with fuel oil. This paragraph does not apply to emissions unit 011.)** The owner or operator of an affected facility subject to an opacity standard may submit, for compliance purposes, continuous opacity monitoring system (COMS) data results produced during any performance test required under 40 CFR 60.8 in lieu of Method 9 observation data. If an owner or operator elects to submit COMS data for compliance with the opacity standard, he shall notify the Administrator of that decision, in writing, at least 30 days before any performance test required under 40 CFR 60.8 is conducted. Once the owner or operator of an affected facility has notified the Administrator to that effect, the COMS data results will be used to determine opacity compliance during subsequent tests required under 40 CFR 60.8 until the owner or operator notifies the Administrator, in writing, to the contrary. For the purpose of determining compliance with the opacity standard during a performance test required under 40 CFR 60.8 using COMS data, the minimum total time of COMS data collection shall be averages of all 6-minute continuous periods within the duration of the mass emission performance test. Results of the COMS opacity determinations shall be submitted along with the results of the performance test required under 60.8. The owner or operator of an affected facility using a COMS for compliance purposes is responsible for demonstrating that the COMS meets the requirements specified in 40 CFR 60.13(c), that the COMS has been properly maintained and operated, and that the resulting data have not been altered in any way. If COMS data results are submitted for compliance with the opacity standard for a period of time during which Method 9 data indicates noncompliance, the Method 9 data will be used to determine opacity compliance. [40 CFR 60.11]

**E.4.** Pursuant to 40 CFR 60.12 Circumvention.

No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a

standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.
[40 CFR 60.12]

**E.5.** Pursuant to 40 CFR 60.13 Monitoring Requirements. **(This condition applies to emissions units 007, 008, 009, and 010 only in the event they are fired with fuel oil. This condition does not apply to emissions unit 011.)**

(a) For the purposes of this section, all continuous monitoring systems required under applicable subparts shall be subject to the provisions of this section upon promulgation of performance specifications for continuous monitoring systems under appendix B of 40 CFR 60 and, if the continuous monitoring system is used to demonstrate compliance with emission limits on a continuous basis, appendix F to 40 CFR 60, unless otherwise specified in an applicable subpart or by the Administrator. Appendix F is applicable December 4, 1987.
(c) If the owner or operator of an affected facility elects to submit continuous opacity monitoring system (COMS) data for compliance with the opacity standard as provided under 40 CFR 60.11(e)(5), he/she shall conduct a performance evaluation of the COMS as specified in Performance Specification 1, appendix B, of 40 CFR 60 before the performance test required under 40 CFR 60.8 is conducted. Otherwise, the owner or operator of an affected facility shall conduct a performance evaluation of the COMS or continuous emission monitoring system (CEMS) during any performance test required under 40 CFR 60.8 or within 30 days thereafter in accordance with the applicable performance specification in appendix B of 40 CFR 60. The owner or operator of an affected facility shall conduct COMS or CEMS performance evaluations at such other times as may be required by the Administrator under section 114 of the Act.
(1) The owner or operator of an affected facility using a COMS to determine opacity compliance during any performance test required under 40 CFR 60.8 and as described in 40 CFR 60.11(e)(5), shall furnish the Administrator two or, upon request, more copies of a written report of the results of the COMS performance evaluation described in 40 CFR 60.13(c) at least 10 days before the performance test required under 40 CFR 60.8 is conducted.
(2) Except as provided in 40 CFR 60.13(c)(1), the owner or operator of an affected facility shall furnish the Administrator within 60 days of completion two or, upon request, more copies of a written report of the results of the performance evaluation.
(d)(1) Owners and operators of all continuous emission monitoring systems installed in accordance with the provisions of this part shall check the zero (or low-level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) calibration drifts at least once daily in accordance with a written procedure. The zero and span shall, as a minimum, be adjusted whenever the 24-hour zero drift or 24-hour span drift exceeds two times the limits of the applicable performance specifications in appendix B. The system must allow the amount of excess zero and span drift measured at the 24-hour interval checks to be recorded and quantified, whenever specified. For continuous monitoring systems measuring opacity of emissions, the optical surfaces exposed to the effluent gases shall be cleaned prior to performing the zero and span drift adjustments except that for systems using automatic zero adjustments. The optical surfaces shall be cleaned when the cumulative automatic zero compensation exceeds 4 percent opacity.
(2) Unless otherwise approved by the Administrator, the following procedures shall be followed for continuous monitoring systems measuring opacity of emissions. Minimum procedures shall include a method for producing a simulated zero opacity condition and an upscale (span) opacity condition using a certified neutral density filter or other related technique

to produce a known obscuration of the light beam. Such procedures shall provide a system check of the analyzer internal optical surfaces and all electronic circuitry including the lamp and photo detector assembly.
(e) Except for system breakdowns, repairs, calibration checks, and zero and span adjustments required under 40 CFR 60.13(d), all continuous monitoring systems shall be in continuous operation and shall meet minimum frequency of operation requirements as follows:
(1) All continuous monitoring systems referenced by 40 CFR 60.13(c) for measuring opacity of emissions shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period.
(2) All continuous monitoring systems referenced by 40 CFR 60.13(c) for measuring emissions, except opacity, shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.
(f) All continuous monitoring systems or monitoring devices shall be installed such that representative measurements of emissions or process parameters from the affected facility are obtained. Additional procedures for location of continuous monitoring systems contained in the applicable Performance Specifications of appendix B of 40 CFR 60 shall be used.
(g) When the effluents from a single affected facility or two or more affected facilities subject to the same emission standards are combined before being released to the atmosphere, the owner or operator may install applicable continuous monitoring systems on each effluent or on the combined effluent. When the affected facilities are not subject to the same emission standards, separate continuous monitoring systems shall be installed on each effluent. When the effluent from one affected facility is released to the atmosphere through more than one point, the owner or operator shall install an applicable continuous monitoring system on each separate effluent unless the installation of fewer systems is approved by the Administrator. When more than one continuous monitoring system is used to measure the emissions from one affected facility (e.g., multiple breechings, multiple outlets), the owner or operator shall report the results as required from each continuous monitoring system.
(h) Owners or operators of all continuous monitoring systems for measurement of opacity shall reduce all data to 6-minute averages and for continuous monitoring systems other than opacity to 1-hour averages for time periods as defined in 40 CFR 60.2. Six-minute opacity averages shall be calculated from 36 or more data points equally spaced over each 6-minute period. For continuous monitoring systems other than opacity, 1-hour averages shall be computed from four or more data points equally spaced over each 1-hour period. Data recorder during periods of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments shall not be included in the data averages computed under this paragraph. An arithmetic or integrated average of all data may be used. The data may be recorded in reduced or non reduced form (e.g., ppm pollutant and percent O2 or ng/J of pollutant). All excess emissions shall be converted into units of the standard using the applicable conversion procedures specified in subparts. After conversion into units of the standard, the data may be rounded to the same number of significant digits as used in the applicable subparts to specify the emission limit (e.g., rounded to the nearest 1 percent opacity).
[40 CFR 60.13]

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

**Operated by:** Florida Power and Light Company
**ORIS code:** 6246

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

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

| E.U. ID No. | Brief Description |
|---|---|
| 003 & 007 | Combined Cycle Heat Recovery Steam Generator, HRSG11 |
| 004 & 008 | Combined Cycle Heat Recovery Steam Generator, HRSG12 |
| 005 & 009 | Combined Cycle Heat Recovery Steam Generator, HRSG21 |
| 006 & 010 | Combined Cycle Heat Recovery Steam Generator, HRSG22 |

**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 07/01/95.
[Chapter 62-213, F.A.C. and Rule 62-214.320, F.A.C.]

**A.2.** Sulfur dioxide ($SO_2$) allowance allocations for each Acid Rain unit are as follows:

| E.U. ID No. | EPA ID | Year | 2000 | 2001 | 2002 | 2003 |
|---|---|---|---|---|---|---|
| 003 & 007 | HRSG11 | **SO2 allowances, under Table 2 or 3 of 40 CFR Part 73** | 1629* | 1629* | 1629* | 1629* |
| 004 & 008 | HRSG12 | **SO2 allowances, under Table 2 or 3 of 40 CFR Part 73** | 1629* | 1629* | 1629* | 1629* |

| E.U. ID No. | EPA ID | Year | 2000 | 2001 | 2002 | 2003 |
|---|---|---|---|---|---|---|
| 005 & 009 | HRSG21 | **SO2 allowances, under Table 2 or 3 of 40 CFR Part 73** | 1555* | 1555* | 1555* | 1555* |
| 006 & 010 | HRSG22 | **SO2 allowances, under Table 2 or 3 of 40 CFR Part 73** | 1555* | 1555* | 1555* | 1555* |

* The number of allowances held by an Acid Rain source in a unit account may differ from the number allocated by the US EPA 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 increase 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, Fast-Track Revisions of Acid Rain Parts.
[Rule 62-213.413, F.A.C.]

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

**Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers (version dated 02/05/97)**

**Abbreviations and Acronyms:**

**°F**: Degrees Fahrenheit
**BACT:** Best Available Control Technology
**CFR**: Code of Federal Regulations
**DEP:** State of Florida, Department of Environmental Protection
**DARM**: Division of Air Resource Management
**EPA**: United States Environmental Protection Agency
**F.A.C.**: Florida Administrative Code
**F.S.**: Florida Statute
**ISO:** International Standards Organization
**LAT**: Latitude
**LONG**: Longitude
**MMBtu:** million British thermal units
**MW:** Megawatt
**ORIS:** Office of Regulatory Information Systems
**SOA**: Specific Operating Agreement
**UTM:** Universal Transverse Mercator

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**Citations:**

*The following examples illustrate the methods used in this permit to abbreviate and cite the references of rules, regulations, guidance memorandums, permit numbers, and ID numbers.*

Code of Federal Regulations:

*Example*: **[40 CFR 60.334]**

| | | | |
|---|---|---|---|
| Where: | 40 | reference to | Title 40 |
| | CFR | reference to | Code of Federal Regulations |
| | 60 | reference to | Part 60 |
| | 60.334 | reference to | Regulation 60.334 |

Florida Administrative Code (F.A.C.) Rules:

*Example*: **[Rule 62-213, F.A.C.]**

| | | | |
|---|---|---|---|
| Where: | 62 | reference to | Title 62 |
| | 62-213 | reference to | Chapter 62-213 |
| | 62-213.205 | reference to | Rule 62-213.205, F.A.C. |

**ISO:** International Standards Organization refers to those conditions at 288 degrees K, 60 percent relative humidity, and 101.3 kilopascals pressure.

**Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers (continued)**

**Identification Numbers:**

Facility Identification (ID) Number:

*Example*: Facility ID No.: 1050221

*Where:*

105 = 3-digit number code identifying the facility is located in Polk County
0221 = 4-digit number assigned by state database.

Permit Numbers:

*Example*: 1050221-002-AV, or
1050221-001-AC

*Where:*

AC = Air Construction Permit
AV = Air Operation Permit (Title V Source)
105 = 3-digit number code identifying the facility is located in Polk County
0221 = 4-digit number assigned by permit tracking database
001 or 002 = 3-digit sequential project number assigned by permit tracking database

*Example*: PSD-FL-185
PA95-01
AC53-208321

*Where:*

PSD= Prevention of Significant Deterioration Permit
PA = Power Plant Siting Act Permit
AC = old Air Construction Permit numbering

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

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

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

| E.U. ID No. | Brief Description of Emissions Units and/or Activity |
|---|---|
| 012 | Emergency Diesel Generator, Miscellaneous Mobile Equipment and Internal Combustion Engines |
| 013 | Painting of Plant Equipment and Non-halogenated Solvent Cleaning Operations |

## 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, are exempt from the permitting requirements of Chapters 62-210 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 Rule 62-210.300(3)(a), 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 Rule 62.210.300(3)(a), 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. Gas metering area relief valves. |
| 2. Hydrazine mixing tank and relief valves. |
| 3. Fuel oil storage tanks and related equipment. |
| 4. Lube oil tank vents and extraction vents. |
| 5. Oil/water separators and related equipment. |
| 6. Sandblasting facility. |
| 7. Fire protection equipment. |
| 8. Miscellaneous Mobile Vehicle Operations (cars, light trucks, heavy-duty trucks, backhoes, tractors, forklifts, cranes, etc.) |

## 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[1, 2] | Revised Dates |
|---|---|---|---|---|---|---|
| 003 - 006 | Combustion Turbines for Combined Cycle Heat Recovery Steam Generators | PPS PA74-01 | 10/16/74 | | | 5/20/80<br>3/15/84<br>7/16/91<br>5/28/92 |
| | | 1070014-001-AV<br>1070014-002-AV | 6/17/98<br>7/27/98 | 12/31/03<br>12/31/03 | | 7/27/98 |
| | | 1070014-003-AC | 7/20/99 | 7/20/04 | | |
| 007-010 | Duct Burners for Combined Cycle Heat Recovery Steam Generators | PPS PA74-01 | 10/16/74 | | | 5/20/80<br>3/15/84<br>7/16/91<br>5/28/92 |
| | | 1070014-001-AV<br>1070014-002-AV | 6/17/98<br>7/27/98 | 12/31/03<br>12/31/03 | | 7/27/98 |
| 011 | Auxiliary Boiler | PPS PA74-01 | 10/16/74 | | | 5/20/80<br>3/15/84<br>7/16/91<br>5/28/92 |
| | | 1070014-001-AV<br>1070014-002-AV | 6/17/98<br>7/27/98 | 12/31/03<br>12/31/03 | | 7/27/98 |

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

From: **Facility ID No.:** 31JAX540014

To: **Facility ID No.:** 1070014

Notes:
1 - AO permit(s) automatic extension(s) in Rule 62-210.300(2)(a)3.a., F.A.C., effective 03/21/96.
2 - AC permit(s) automatic extension(s) in Rule 62-213.420(1)(a)4., F.A.C., effective 03/20/96.
{Rule 62-213.420(1)(b)2., F.A.C., effective 03/20/96, allows Title V Sources to operate under existing valid permits}

## Appendix S
## Permit Summary Tables

### Table 1-1, Summary of Air Pollutant Emission Standards

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

| Emissions Unit | Brief Description |
|---|---|
| 003 | Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG11. The maximum heat input at 85 degrees F ambient temperature for natural gas and fuel oil is 968.3 mmBtu/hr and 910.6 mmBtu/hr, respectively. |
| 004 | Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG12. The maximum heat input at 85 degrees F ambient temperature for natural gas and fuel oil is 968.3 mmBtu/hr and 910.6 mmBtu/hr, respectively. |
| 005 | Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG21. The maximum heat input at 85 degrees F ambient temperature for natural gas and fuel oil is 968.3 mmBtu/hr and 910.6 mmBtu/hr, respectively. |
| 006 | Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG22. The maximum heat input at 85 degrees F ambient temperature for natural gas and fuel oil is 968.3 mmBtu/hr and 910.6 mmBtu/hr, respectively. |

| | | | Allowable Emissions | | | Equivalent Emissions[1] | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pollutant | Fuel(s) | Hours per Year | Standard(s) | lbs./hour | TPY | lbs./hour | TPY | Regulatory Citations | See Permit Condition(s) |
| $SO_2$ | Oil | 8760 | 0.7 % S (by weight) | | | 699 | 3060 | PPSC PA 74-01 condition 1.B.(i) | **A.4.** |
| **VE** | Oil or Natural Gas | 8760 | 20% opacity ( 27% for one 6-minute period per hour) | | | | | PPSC PA 74-01 condition 1.B.(ii) | **A.5.** |
| $SO_2$ | Oil | 8760 | 0.50% sulfur (by weight) when sustained winds exceed 20 miles per hour for any continuous period of three hours or longer | | | see above | see above | PPSC PA 74-01, condition 2 | **A.10.** |

## Appendix S
## Permit Summary Tables

**Table 1-1, Summary of Air Pollutant Emission Standards Continued**

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

| Emissions Unit | Brief Description |
|---|---|
| 007 | Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG11. The maximum heat input is 250 mmBtu/hr. |
| 008 | Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG12. The maximum heat input is 250 mmBtu/hr. |
| 009 | Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG21. The maximum heat input is 250 mmBtu/hr. |
| 010 | Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG22. The maximum heat input is 250 mmBtu/hr. |

| | | | Allowable Emissions | | | Equivalent Emissions[1] | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pollutant | Fuel(s) | Hours per Year | Standard(s) | lbs./hour | TPY | lbs./hour | TPY | Regulatory Citations | See Permit Condition(s) |
| $SO_2$ | Oil | 8760 | 0.5 % S by weight | | | 126 | 550 | PPSC PA 74-01 condition 1.C.(i), and 40 CFR 60.42b | **B.4.** |
| **VE** | Oil or Natural Gas | 8760 | 20% opacity ( 27% for one 6-minute period per hour) | | | | | PPSC PA 74-01 condition 1.C.(ii)(a), and 40 CFR 60.43b and 60.46b(a) | **B.5.** |
| **NOx** | Oil or Natural Gas | 8760 | 0.20 lb/mmBtu | | | 50 | 219 | 40 CFR 60.44b, PPSC PA 74-01 (modification of 5/28/92) | **B.6.** |

## Appendix S
## Permit Summary Tables

**Table 1-1, Summary of Air Pollutant Emission Standards Continued**

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

| Emissions Unit | Brief Description |
|---|---|
| 011 | Auxiliary boiler with a maximum heat input for natural gas and number 2 fuel oil of 16.275 mmBtu/hr and 14.28 mmBtu/hr, respectively. |

| | | | Allowable Emissions | | | Equivalent Emissions[1] | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pollutant | Fuel(s) | Hours per Year | Standard(s) | lbs./hour | TPY | lbs./hour | TPY | Regulatory Citations | See Permit Condition(s) |
| $SO_2$ | Oil | 8760 | 0.5 % S by weight | | | 126 | 550 | 40 CFR 60.42c(d), (h), (i) and (j) | **C.4.** |

Notes:

[1] The "Equivalent Emissions" listed are for informational purposes only.

## Appendix S
## Permit Summary Tables

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

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

| Emissions Unit | Brief Description |
|---|---|
| 003 | Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG11. The maximum heat input at 85 degrees F ambient temperature for natural gas and fuel oil is 968.3 mmBtu/hr and 910.6 mmBtu/hr, respectively. |
| 004 | Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG12. The maximum heat input at 85 degrees F ambient temperature for natural gas and fuel oil is 968.3 mmBtu/hr and 910.6 mmBtu/hr, respectively. |
| 005 | Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG21. The maximum heat input at 85 degrees F ambient temperature for natural gas and fuel oil is 968.3 mmBtu/hr and 910.6 mmBtu/hr, respectively. |
| 006 | Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG22. The maximum heat input at 85 degrees F ambient temperature for natural gas and fuel oil is 968.3 mmBtu/hr and 910.6 mmBtu/hr, respectively.. |

| Pollutant or Parameter | Fuel(s) | Compliance Method | Testing Frequency | Frequency Base Date[1] | Minimum Compliance Test Duration | CMS[2] | See Permit Condition(s) |
|---|---|---|---|---|---|---|---|
| **$SO_2$** | Oil | Fuel analysis, the fuel sulfur content, percent by weight, for liquid fuels shall be evaluated using either ASTM D2622-94, ASTM D4294-90(95), ASTM D1552-95, ASTM D1266-91, or both ASTM D4057-88 and ASTM D129-95 (or latest ed.) | Upon each fuel delivery | Upon each fuel delivery | | No | **A.6. & A.7.** |
| **VE** | Oil or Natural Gas | DEP Method 9 | Annual | September 30 | One hour | No | **A.8., A.9.** |
| **$SO_2$** | Oil | Measure wind velocity and direction, at hourly intervals in the plant vicinity, only for those hours during which any combustion turbine at the plant burns fuel oil containing more than 0.50wt% sulfur | As required | | | No | **A.10.** |

**Appendix S**
**Permit Summary Tables**

**Table 2-1, Summary of Compliance Requirements Continued**

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

| Emissions Unit | Brief Description |
|---|---|
| 007 | Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG11. The maximum heat input is 250 mmBtu/hr. |
| 008 | Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG12. The maximum heat input is 250 mmBtu/hr.. |
| 009 | Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG21. The maximum heat input is 250 mmBtu/hr. |
| 010 | Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG22. The maximum heat input is 250 mmBtu/hr. |

| Pollutant or Parameter | Fuel(s) | Compliance Method | Testing Frequency | Frequency Base Date[1] | Minimum Compliance Test Duration | CMS[2] | See Permit Condition(s) |
|---|---|---|---|---|---|---|---|
| **$SO_2$** | Oil | Maintain fuel receipts as described in 40 CFR 60.49b(r). | Fuel supplier certification | | | No | **B.7., B.14.** |
| **VE** | Oil or Natural Gas | EPA Method 9 | Annual | September 30 | One hour | Yes, when burning fuel oil | **B.8, B.10. & B.11.** |
| **NOx** | Oil or Natural Gas | EPA reference methods 7E and 3A, of 40 CFR part 60 Appendix A | Annual | September 30 | 3 hours | No | **B.9. & B.10.** |

**Appendix S**
**Permit Summary Tables**

**Table 2-1, Summary of Compliance Requirements Continued**

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

| Emissions Unit | Brief Description |
|---|---|
| 011 | Auxiliary boiler with a maximum heat input for natural gas and number 2 fuel oil of 16.275 mmBtu/hr and 14.28 mmBtu/hr, respectively. |

| Pollutant or Parameter | Fuel(s) | Compliance Method | Testing Frequency | Frequency Base Date[1] | Minimum Compliance Test Duration | CMS[2] | See Permit Condition(s) |
|---|---|---|---|---|---|---|---|
| $SO_2$ | Oil | Certification from the fuel supplier, as described under 40 CFR 60.48c(f)(1). | Fuel supplier certification | | | No | **C.4. & C.7.** |

Notes:

[1] Frequency base date established for planning purposes only; see Rule 62-297.310, F.A.C.
[2] CMS = continuous monitoring system

Appendix TV-3, the Title V Core Conditions, has been provided only to the applicant. The most recent version of these conditions may be obtained from the Department's Internet Web site at:

http://www.dep.state.fl.us/air/

If you do not have access to the Internet and would like a copy of Appendix TV, please contact Wendy Alexander, Department of Environmental Protection, Division of Air Resources Management, Bureau of Air Regulation, Mail Station 5505, 2600 Blair Stone Road, Tallahassee, FL 32399-2400, 850/488-0114.

An electronic version of this permit is also available from the Department's Internet Web site above.

## APPENDIX SS-1, STACK SAMPLING FACILITIES (version dated 10/07/96)

Stack Sampling Facilities Provided by the Owner of an Emissions Unit. This section describes the minimum requirements for stack sampling facilities that are necessary to sample point emissions units. Sampling facilities include sampling ports, work platforms, access to work platforms, electrical power, and sampling equipment support. Emissions units must provide these facilities at their expense. All stack sampling facilities must meet any Occupational Safety and Health Administration (OSHA) Safety and Health Standards described in 29 CFR Part 1910, Subparts D and E.

(a) Permanent Test Facilities. The owner or operator of an emissions unit for which a compliance test, other than a visible emissions test, is required on at least an annual basis, shall install and maintain permanent stack sampling facilities.

(b) Temporary Test Facilities. The owner or operator of an emissions unit that is not required to conduct a compliance test on at least an annual basis may use permanent or temporary stack sampling facilities. If the owner chooses to use temporary sampling facilities on an emissions unit, and the Department elects to test the unit, such temporary facilities shall be installed on the emissions unit within 5 days of a request by the Department and remain on the emissions unit until the test is completed.

(c) Sampling Ports.

1. All sampling ports shall have a minimum inside diameter of 3 inches.
2. The ports shall be capable of being sealed when not in use.
3. The sampling ports shall be located in the stack at least 2 stack diameters or equivalent diameters downstream and at least 0.5 stack diameter or equivalent diameter upstream from any fan, bend, constriction or other flow disturbance.
4. For emissions units for which a complete application to construct has been filed prior to December 1, 1980, at least two sampling ports, 90 degrees apart, shall be installed at each sampling location on all circular stacks that have an outside diameter of 15 feet or less. For stacks with a larger diameter, four sampling ports, each 90 degrees apart, shall be installed. For emissions units for which a complete application to construct is filed on or after December 1, 1980, at least two sampling ports, 90 degrees apart, shall be installed at each sampling location on all circular stacks that have an outside diameter of 10 feet or less. For stacks with larger diameters, four sampling ports, each 90 degrees apart, shall be installed. On horizontal circular ducts, the ports shall be located so that the probe can enter the stack vertically, horizontally or at a 45 degree angle.
5. On rectangular ducts, the cross sectional area shall be divided into the number of equal areas in accordance with EPA Method 1. Sampling ports shall be provided which allow access to each sampling point. The ports shall be located so that the probe can be inserted perpendicular to the gas flow.

(d) Work Platforms.

1. Minimum size of the working platform shall be 24 square feet in area. Platforms shall be at least 3 feet wide.
2. On circular stacks with 2 sampling ports, the platform shall extend at least 110 degrees around the stack.
3. On circular stacks with more than two sampling ports, the work platform shall extend 360 degrees around the stack.
4. All platforms shall be equipped with an adequate safety rail (ropes are not acceptable), toeboard, and hinged floor-opening cover if ladder access is used to reach the platform. The safety rail directly in line with the sampling ports shall be removable so that no obstruction exists in an area 14 inches below each sample port and 6 inches on either side of the sampling port.

(e) Access to Work Platform.

1. Ladders to the work platform exceeding 15 feet in length shall have safety cages or fall arresters with a minimum of 3 compatible safety belts available for use by sampling personnel.

2. Walkways over free-fall areas shall be equipped with safety rails and toeboards.

(f) Electrical Power.

1. A minimum of two 120-volt AC, 20-amp outlets shall be provided at the sampling platform within 20 feet of each sampling port.

2. If extension cords are used to provide the electrical power, they shall be kept on the plant's property and be available immediately upon request by sampling personnel.

(g) Sampling Equipment Support.

1. A three-quarter inch eyebolt and an angle bracket shall be attached directly above each port on vertical stacks and above each row of sampling ports on the sides of horizontal ducts.

a. The bracket shall be a standard 3 inch x 3 inch x one-quarter inch equal-legs bracket which is 1 and one-half inches wide. A hole that is one-half inch in diameter shall be drilled through the exact center of the horizontal portion of the bracket. The horizontal portion of the bracket shall be located 14 inches above the centerline of the sampling port.

b. A three-eighth inch bolt which protrudes 2 inches from the stack may be substituted for the required bracket. The bolt shall be located 15 and one-half inches above the centerline of the sampling port.

c. The three-quarter inch eyebolt shall be capable of supporting a 500 pound working load. For stacks that are less than 12 feet in diameter, the eyebolt shall be located 48 inches above the horizontal portion of the angle bracket. For stacks that are greater than or equal to 12 feet in diameter, the eyebolt shall be located 60 inches above the horizontal portion of the angle bracket. If the eyebolt is more than 120 inches above the platform, a length of chain shall be attached to it to bring the free end of the chain to within safe reach from the platform.

2. A complete monorail or dualrail arrangement may be substituted for the eyebolt and bracket.

3. When the sample ports are located in the top of a horizontal duct, a frame shall be provided above the port to allow the sample probe to be secured during the test.

[Rule 62-297.310(6), F.A.C.]

# TABLE 297.310-1 CALIBRATION SCHEDULE
## (version dated 10/07/96)

[Note: This table is referenced in Rule 62-297.310, F.A.C.]

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

[electronic file name: 297310-1.doc]

# FIGURE 1--SUMMARY REPORT--GASEOUS AND OPACITY EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE

[Note: This form is referenced in 40 CFR 60.7, Subpart A-General Provisions]

Pollutant *(Circle One)*: $SO_2$ $NO_X$ TRS $H_2S$ CO Opacity

Reporting period dates: From _____ to _____

Company: _____

Emission Limitation: _____

Address: _____

Monitor Manufacturer: _____

Model No.: _____

Date of Latest CMS Certification or Audit: _____

Process Unit(s) Description: _____

Total source operating time in reporting period [1]: _____

| **Emission data summary** [1] | **CMS performance summary** [1] |
|---|---|
| 1. Duration of excess emissions in reporting period due to: | 1. CMS downtime in reporting period due to: |
| a. Startup/shutdown ..... ____ | a. Monitor equipment malfunctions ..... ____ |
| b. Control equipment problems ..... ____ | b. Non-Monitor equipment malfunctions ..... ____ |
| c. Process problems ..... ____ | c. Quality assurance calibration ..... ____ |
| d. Other known causes ..... ____ | d. Other known causes ..... ____ |
| e. Unknown causes ..... ____ | e. Unknown causes ..... ____ |
| 2. Total duration of excess emissions ..... ____ | 2. Total CMS Downtime ..... ____ |
| 3. Total duration of excess emissions x (100) / [Total source operating time] ..... ____ % [2] | 3. [Total CMS Downtime] x (100) / [Total source operating time] ..... ____ % [2] |

[1] For opacity, record all times in minutes. For gases, record all times in hours.

[2] For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in 40 CFR 60.7(c) shall be submitted.

*Note: On a separate page, describe any changes since last quarter in CMS, process or controls.*

I certify that the information contained in this report is true, accurate, and complete.

*Name*: _____

*Signature*: _____ *Date*: _____

*Title*: _____

# Phase II Permit Application



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

This submission is: ☒ New ☐ Revised

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

| Plant Name | State | ORIS Code |
|---|---|---|
| Putnam Plant | FL | 6246 |

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

| a | b | c | d | e |
|---|---|---|---|---|
| | Compliance Plan | | | |
| Boiler ID# | Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1) | Repowering Plan | New Units Commence Operation Date | New Units Monitor Certification Deadline |
| HRSG11 | Yes | N/A | N/A | N/A |
| HRSG12 | Yes | N/A | N/A | N/A |
| HRSG21 | Yes | N/A | N/A | N/A |
| HRSG22 | Yes | N/A | N/A | N/A |
| | Yes | | | |
| | Yes | | | |
| | Yes | | | |
| | Yes | | | |
| | Yes | | | |
| | Yes | | | |
| | Yes | | | |
| | Yes | | | |

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

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

Plant Name (from Step 1)

Recordkeeping and Reporting Requirements (cont.)

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

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

Liability.

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

Effect on Other Authorities. No provision of the Acid Rain Program, an Acid Rain part application, an Acid Rain part, or a written exemption under 40 CFR 72.7 or 72.8 shall be construed as:

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

Certification

I am authorized to make this submission on behalf of the owners and operators of the Acid Rain source or Acid Rain units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment. (There are no attachments to this document)

| | |
|---|---|
| Name: William M. Reichel | |
| Signature: William M. Reichel | Date: 12/4/95 |