Florida Power and Light Company
Lauderdale Plant
Facility ID No. 0110037
Broward County

Title V Air Operation Permit Renewal

Permit No. 0110037-008-AV
(Renewal of Title V Air Operation Permit No. 0110037-005-AV)

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Permitting Authority
State of Florida
Department of Environmental Protection
Division of Air Resource Management
Office of Permitting and Compliance
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Title V Air Operation Permit Renewal

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FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

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Permit No. 0110037-008-AV
Lauderdale Plant
Facility ID No. 0110037
Title V Air Operation Permit Renewal

The purpose of this permit is to renew the Title V Air Operation Permit for the above referenced facility. The existing Lauderdale Plant is located 2 miles West of Ravenswood Road, Fort Lauderdale, in Broward County. UTM coordinates are: Zone 17, 580.2 km East and 2883.3 km North. Latitude is: 26° 04' 05" North; and, Longitude is: 80° 11' 54" West.

The Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-213 and 62-214. The above named permittee is hereby authorized to operate the facility shown on the application and approved drawings, plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

Effective Date: January 1, 2014
Renewal Application Due Date: May 20, 2018
Expiration Date: December 31, 2018

(Draft/Proposed)

_____
Jeffery F. Koerner, Program Administrator
Office of Permitting and Compliance
Division of Air Resource Management

JFK/jh/tbc

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Subsection A. Facility Description.

This existing facility consists primarily of two combined-cycle generating units (Unit 4 and Unit 5), two banks of twelve simple-cycle gas turbine units, and six fuel storage tanks. Each combined-cycle unit consists of two combustion turbines (CT) which each exhaust through a separate heat recovery steam generator (HRSG). Each HRSG converts the heat from the CT exhaust into steam. The steam produced from the two HRSG units drives one single-reheat turbine generator. Each combined-cycle unit has a net summer continuous capability of 430 megawatts (MW). Each bank of simple-cycle gas turbines has a net capability of 504 MW.

Also included in this permit is a regulated unit for solvent usage; in addition, there are miscellaneous unregulated/insignificant emissions units and/or activities.

Subsection B. Summary of Emissions Units.

EU No.	Brief Description
Regulated Emissions Units	
035	Combined-Cycle Combustion Turbine with Heat Recovery Steam Generator (CT 4A)
036	Combined-Cycle Combustion Turbine with Heat Recovery Steam Generator (CT 4B)
037	Combined-Cycle Combustion Turbine with Heat Recovery Steam Generator (CT 5A)
038	Combined-Cycle Combustion Turbine with Heat Recovery Steam Generator (CT 5B)
003	Bank of 12 Combustion Turbines (Nos. 1 to 12)
015	Bank of 12 Combustion Turbines (Nos. 13 to 24)
027	Fuel Oil Storage Tank #2 (80,000 barrel (bbl), Light Distillate Fuel Oil)
028	Fuel Oil Storage Tank #3 (150,000 bbl, Light Distillate Fuel Oil)
029	Fuel Oil Storage Tank #5 (75,000 bbl, Light Distillate Fuel Oil)
030	2 Fuel Oil Dump Tanks (2,500 gallon and 110 gallon)
039	Site Solvent Usage
042	Auxiliary Boiler used to provide steam to the turbine shaft seals during a cold start of the plant. Maximum designed heat input rate is 15.5 MMBtu/hr.
044	Emergency Diesel Fire Pump Engine
Unregulated Emissions Units and Activities	
041	Facility-wide Fugitive Emissions for Volatile Organic Compounds (VOC)
043	Propane Fuel Storage Tank
045	Two (2) Small Hurricane Hardening Program Propane “Emergency” Generators; 25 KW (18.64 HP)

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Subsection C. Applicable Regulations.

Based on the Title V Air Operation Permit Renewal application received April 24, 2013, this facility is a major source of hazardous air pollutants (HAP). This facility is classified as a Prevention of Significant Deterioration (PSD) major facility. A summary of applicable regulations is shown in the following table.

Regulation	EU No(s).
40 Code of Federal Regulations (CFR) 60, Subpart A, New Source Performance Standards (NSPS) General Provisions	035, 036, 037, 038
40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines	
40 CFR 75 Acid Rain Monitoring Provisions	
40 CFR Part 63, Subpart A - National Emissions Standards for Hazardous Air Pollutants General Provisions	042, 044
40 CFR Part 63, Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process heaters	042
40 CFR Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	044
State Rule Citations	
Chapter 62-4, Florida Administrative Code (F.A.C.) (Permitting Requirements)	003, 015, 027, 028, 029, 030, 035, 036, 037, 038, 039, 042, 044
Chapter 62-204, F.A.C. (Ambient Air Quality Requirements, PSD Increments, and Federal Regulations Adopted by Reference)	
Chapter 62-210, F.A.C. (Permits Required, Public Notice, Reports, Stack Height Policy, Circumvention, Excess Emissions, and Forms)	
Chapter 62-212, F.A.C. (Preconstruction Review, PSD Review and Best Available Control Technology (BACT))	
Chapter 62-213, F.A.C. (Title V Air Operation Permits for Major Sources of Air Pollution)	
Chapter 62-214, F.A.C. (Requirements For Sources Subject To The Federal Acid Rain Program)	035, 036, 037, 038
Chapter 62-296, F.A.C. (Emission Limiting Standards)	003, 015, 027, 028, 029, 030, 035, 036, 037, 038, 042, 044
Chapter 62-297, F.A.C. (Test Methods and Procedures, Continuous Monitoring Specifications, and Alternate Sampling Procedures)	
Rule 62-296.470, F.A.C. (Clean Air Interstate Rule) (CAIR)	035, 036, 037, 038

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

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

Emissions and Controls

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

FW3. General Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. [Rule 62-296.320(1), F.A.C.]

{Permitting Note: Nothing is deemed necessary and ordered at this time.}

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

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

a. In order to perform sandblasting on fixed plant equipment in the small sandblast facility, temporary sandblasting enclosures shall be constructed as necessary. Containment devices shall be used to capture and contain sand.
b. Maintenance of paved areas shall be performed as needed.
c. Mowing of grass and care of vegetation shall be performed on a regular basis.
d. Access to plant property by unnecessary vehicles shall be controlled and limited.
e. Bagged chemical products shall be stored in weather-tight buildings until they are used. Spills of powdered chemical products shall be cleaned up as soon as practical.

[Rule 62-296.320(4)(c)2., F.A.C.; and proposed by applicant in Title V air operation permit renewal application received April 24, 2013.]

Annual Reports and Fees

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

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

FW7. Annual Emissions Fee Form and Fee. The annual Title V emissions fees are due (postmarked) by March 1st of each year. The completed form and calculated fee shall be submitted to: Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida 32315-3070. The forms are available for

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download by accessing the Title V Annual Emissions Fee On-line Information Center at the following Internet web site: http://www.dep.state.fl.us/Air/permitting/tvfee.htm. [Rule 62-213.205, F.A.C.]

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

FW9. Prevention of Accidental Releases (Section 112(r) of CAA). If, and when, the facility becomes subject to 112(r), the permittee shall:

a. Submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent electronically through EPA's Central Data Exchange system at the following address: https://cdx.epa.gov. Information on electronically submitting risk management plans using the Central Data Exchange system is available at: http://www.epa.gov/osweroe1/content/rmp/index.htm. The RMP Reporting Center can be contacted at: RMP Reporting Center, Post Office Box 10162, Fairfax, VA 22038, Telephone: (703) 227-7650.

b. 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]

FW11. Volatile Organic Compounds (VOC). The total VOC emissions from all emissions units at this facility (with the exception of the two combined-cycle units, i.e., Unit 4 and Unit 5, that are excluded from this specific condition) shall not exceed 99.92 tons per year.
[AC06-179848, Specific Condition 26. and AO06-230614, Specific Condition 12.]

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Subsection A. Emissions Units 035, 036, 037, 038

The specific conditions in this section apply to the following emissions unit(s):

EU No.	Brief Description
035	Combined-Cycle Combustion Turbine with Heat Recovery Steam Generator (CT 4A)
036	Combined-Cycle Combustion Turbine with Heat Recovery Steam Generator (CT 4B)
037	Combined-Cycle Combustion Turbine with Heat Recovery Steam Generator (CT 5A)
038	Combined-Cycle Combustion Turbine with Heat Recovery Steam Generator (CT 5B)

The four combined-cycle combustion turbines (CT) are identical in configuration. Each CT is connected to an electrical generator, and each CT generates heat which produces steam in a heat recovery steam generator (HRSG). The steam from two HRSG units is then sent to a steam turbine generator for additional electrical power. The combined CT 4A and CT 4B units are designated Unit 4; in like manner, the combined CT 5A and CT 5B units are designated Unit 5. Unit 4 and Unit 5 each have a net summer continuous capability of 430 MW. Nitrogen oxides (NO_x) emissions are controlled by using steam injection. Duct modules, suitable for later installation of selective catalytic reduction equipment, have been installed. Unit 4 commenced commercial operation in May, 1993; Unit 5 commenced commercial operation in June, 1993. Both Unit 4 and Unit 5 have dual stacks with a height of 150 feet.

The following potential emissions, determined by BACT, are tabulated for PSD and inventory purposes:

		Maximum Potential Emissions (@40 ^{0} F)	
Pollutant	**Fuel**	**lb/hr/CT**	**4 CT (TPY)**
Sulfuric Acid (H_2SO_4) Mist	Gas Oil	0.042 67	196 (combined gas and oil total)
Mercury	Gas Oil	0.0192 0.0049	0.3 (combined gas and oil total)
Fluoride	Oil	0.0535	0.23
Beryllium	Oil	0.0041	0.02

Sulfuric acid mist emissions assume a maximum of 0.3 percent sulfur in fuel oil for hourly emissions, and an average sulfur content of 0.2 percent for annual emissions. [PSD-FL-145, Specific Condition 6.]

{Permitting Note: The emissions units are regulated under Acid Rain, Phase II; NSPS - 40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines, adopted and incorporated by reference in Rule 62-204.800, F.A.C; PSD-FL-145, Prevention of Significant Deterioration (PSD), in Rule 62-212.400, F.A.C.; and Best Available Control Technology (BACT), in Rule 62-212.410, F.A.C.}

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Essential Potential to Emit (PTE) Parameters

A.1. Permitted Capacity. The maximum operation heat input rate is as follows (see Specific Condition **A.33.**):

Unit No.	MMBtu/hr Heat Input (lower heating value) at 75 degrees F	Fuel Type
035	1,775.62	Natural Gas
	1,646.9	Fuel Oil
036	1,775.62	Natural Gas
	1,646.9	Fuel Oil
037	1,775.62	Natural Gas
	1,646.9	Fuel Oil
038	1,775.62	Natural Gas
	1,646.9	Fuel Oil

The maximum operation heat input rate is limited for Emission Units 035, 036, 037 and 038 in accordance with a 3-hour block average that is limited at any given ambient temperature. The ambient temperature for heat input calculation or look up curves is equivalent to the compressor inlet temperature. The heat input will be demonstrated annually in accordance with the 3-hour run time of the performance test and will be provided as a part of the test submittal. The CEMS Data Handling and Acquisition System (DHAS) calculated heat input shall not be used for compliance purposes.

Heat input is not required to be recorded other than the instances as addressed previously in this condition or as specified in Specific Condition **A.32.**

[Rules 62-4.160(2), 62-204.800 & 62-210.200(PTE); and, PSD-FL-145, Specific Condition 1.]

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

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

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

A.3. Methods of Operation - *Fuels*. The fuels that are allowed to be burned in these units are only natural gas or light distillate fuel oil. [Rule 62-213.410, F.A.C. and Permit No. PSD-FL-145, Specific Condition 3.]

A.4. Hours of Operation. These emissions units are allowed to operate continuously, i.e., 8,760 hours/year, provided that the annual heat input (lower heating value) to the four CT units does not exceed 54,129,421 MMBtu and the annual heat input attributed to light distillate fuel oil firing does not exceed 14,426,844 MMBtu (@ 75 degrees F). [Rule 62-210.200(PTE), F.A.C. and PSD-FL-145, Specific Condition 2.]

Emission Limitations and Standards

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

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Unless otherwise specified, the averaging times for Specific Conditions **A.5-A.14** are based on the specified averaging time of the applicable test method.

A.5. Allowable Emissions. The maximum allowable emissions from each CT, in accordance with the BACT determination, shall not exceed the following emissions, at 75 degrees F:

			Emission Limitations	
Pollutant	**Fuel**	**Basis**	**lb/hr/CT**	**4 CT (TPY)***
Nitrogen Oxides (NO_x)	Gas Oil	42 parts per million by volume dry (ppmvd)** 65 ppmvd**	264 422	4,868 (combined gas and oil total)
Volatile Organic Compounds (VOC)	Gas Oil	1 ppmvd 6 ppmvd	1.3 7.8	50 (combined gas and oil total)
Carbon Monoxide (CO)	Gas Oil	30 ppmvd 33 ppmvd	89 100	1,489 (combined gas and oil total)
Particulate Matter (PM/PM_{10})	Gas Oil		14.7 58	424.7 (combined gas and oil total)
Sulfur Dioxide (SO_2)	Gas Oil		4.9 538	1,582.8 (combined gas and oil total)

Notes:
* Refers to the maximum facility emissions (four CT), with capacity limitations of 25 percent on oil.
**ppm NO_x, dry, corrected to International Organization for Standardization (ISO) standard ambient air conditions and 15 percent oxygen.
[PSD-FL-145, Specific Condition 5.]

A.6. Visible Emissions (VE). Visible emissions shall neither exceed 10% opacity while burning natural gas, nor exceed 20% opacity while burning distillate oil. [PSD-FL-145, Specific Condition 7.]

A.7. Sulfur Dioxide. The maximum allowable sulfur (total) content of the natural gas burned at this facility shall not exceed 10 grains per 1,000 cubic feet (gr/1000 CF). The permittee shall monitor the sulfur content of the natural gas by the customized fuel monitoring schedule approved by EPA. [PSD-FL-145, Specific Condition No. 5, as modified by EPA by letter (June 1993); and Customized Fuel Monitoring Schedule, dated March 12, 1993.]

A.8. Sulfur Dioxide. The sulfur content of the light distillate fuel oil shall not exceed a maximum of 0.3 percent, by weight, and shall not exceed an average of 0.2 percent, by weight, during any consecutive 12-month period. The 12-month average sulfur content shall be calculated as a weighted average based upon the sulfur content of the oil and the amount burned on a daily basis. Compliance shall be demonstrated in accordance with the requirements of 40 CFR 60.335 by testing all oil shipments for sulfur content, nitrogen content, and heating value, using ASTM D 2800-96 or the latest edition. [Rule 62-213.440, F.A.C.; applicant agreement with EPA on March 3, 1998; and, PSD-FL-145, Specific Conditions 5. and 11.]

A.9. Nitrogen Oxides. The nitrogen oxides emissions from each combustion turbine unit shall be controlled by using steam injection for both natural gas and fuel oil firing modes. [PSD-FL-145, Specific Condition 8.]

A.10. Nitrogen Oxides. The nitrogen oxides emissions are limited to 65 parts per million when burning fuel oil

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and 42 parts per million when burning natural gas. See Specific Condition **A.5.** [PSD-FL-145, Specific Condition 9.]

A.11. Volatile Organic Compounds (VOC). VOC emissions are limited to 1.3 lb/hr/CT when burning natural gas and 7.8 lb/hr/CT when burning fuel oil. VOC emissions are limited to 50 tons per year for the four CT units (total) for all gas and oil burned. [PSD-FL-145, Specific Condition 5.]

A.12. Carbon Monoxide (CO). CO emissions are limited to 89 lb/hr/CT when burning natural gas and 100 lb/hr/CT when burning fuel oil. CO emissions are limited to 1489 tons per year for the four CT units (total) for all gas and oil burned. [PSD-FL-145, Specific Condition 5.]

A.13. Particulate Matter (PM/PM_{10}). PM/PM_{10} emissions are limited to 14.7 lb/hr/CT when burning natural gas and 58.0 lb/hr/CT when burning fuel oil. PM/PM_{10} emissions are limited to 424.7 tons per year for the four CT units (total) for all gas and oil burned. [PSD-FL-145, Specific Condition 5.]

A.14. Sulfur Dioxide (SO_2). SO_2 emissions are limited to 4.9 lb/hr/CT when burning natural gas and 538.0 lb/hr/CT when burning fuel oil. SO_2 emissions are limited to 1,582.8 tons per year for the four CT units (total) for all gas and oil burned. [PSD-FL-145, Specific Condition 5.]

Excess Emissions

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

A.15. Excess Emissions Allowed. Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) 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.16. Excess Emissions Not Allowed. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

A.17. Excess Emissions – NSPS Conditions. 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. [40 CFR 60.11(d)]

*{Permitting Note: Specific Condition **A.17.** only applies when demonstrating compliance with the NSPS Subpart GG emissions limits contained in Appendix NSPS, Subpart GG.}*

Monitoring of Operations

A.18. Monitoring of Operations. Monitoring of operations shall be performed as specified in 40 CFR 60.334, see Appendix NSPS, Subpart GG. [40 CFR 60.334]

A.19. Fuel Monitoring. The owner or operator of any stationary gas turbine subject to the provisions of 40 CFR 60, Subpart GG shall monitor sulfur content and nitrogen content of the fuel being fired in the turbine. The frequency of determination of these values shall be as specified in 40 CFR 60.334. Note that the Lauderdale Plant has an approved Customized Fuel Monitoring Schedule (dated March 12, 1993. See Appendix CFMS, Customized Fuel Monitoring Schedule). [40 CFR 60.334]

Continuous Monitoring Requirements

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A.20. NO_x CEMS. The existing NO_x CEMS shall be used to demonstrate compliance with the emissions limits for NO_x, in parts per million, as specified in Specific Condition **A.10.** A 4-hour rolling average shall be used for demonstrating continuous compliance. Compliance with the pounds per hour NO_x limitations, as specified in Specific Condition **A.5**, shall be demonstrated by using relative accuracy test audit (RATA) data from the annual CEMS certifications. See Section 60.334 in Appendix NSPS Subpart GG. [Rule 62-4.070(3), F.A.C. and 0110037-006-AC/PSD-FL-145B, Specific Condition 12.]

A.21. CEMS Requirements. The NO_x CEMS are subject to the monitoring requirements of 40 CFR 60.13. See Appendix NSPS Subpart A, General Provisions. Note that the installed NO_x monitors used for compliance purposes be calibrated and maintained according to 40 CFR Part 75 as an acceptable alternative to 40 CFR 60.13 requirements. [0110037-006-AC/PSD-FL-145B, Specific Condition 12]

Test Methods and Procedures

A.22. Test Methods. Required tests shall be performed in accordance with the following reference methods.

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
3A	Determination of Oxygen and Carbon Dioxide Concentrations in Emissions from Stationary Sources
5B	Method for Determining Particulate Matter Emissions (All PM is assumed to be PM_{10}.)
9	Visual Determination of the Opacity of Emissions from Stationary Sources
10	Determination of Carbon Monoxide Emissions from Stationary Sources {Note: The method shall be based on a continuous sampling train.}
17	Determination of Particulate Matter Emissions from Stationary Sources
18	Measurement of Gaseous Organic Compound Emissions by Gas Chromatography
19	Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxides Emission Rates (Optional F-factor method may be used to determine flow rate and gas analysis to calculate mass emissions in lieu of Methods 1-4.)
20	Determination of Nitrogen Oxides, Sulfur Dioxide and Diluent Emissions from Stationary Gas Turbines
25A	Method for Determining Gaseous Organic Concentrations (Flame Ionization)

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rule 62-213.440, F.A.C., applicant agreement with EPA on March 3, 1998; PSD-FL-145, Specific Condition 10.; 0110037-006-AC/PSD-FL-145B, Specific Condition 10.f.; and, Administrative Permit Correction dated November 7, 2000.]

A.23. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

A.24. Required Tests. Except as specified in this condition for visible emissions testing on fuel oil, annual compliance tests shall be performed on each combustion turbine unit with the fuels used (i.e., natural gas or light distillate fuel oil) for more than 400 hours in the preceding 12-month period. Tests shall be conducted using EPA reference methods, or equivalent, in accordance with 40 CFR 60 Appendix A.

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Gas	EPA Reference Method	Gas	Oil
O_2	3A	X	X
CO_2	3A	X	X
	Test Method		
Sulfur Content	ASTM D 2880-96*		X
	ASTM D 1072-90(94) E-1, ASTM D 3031-81(86), ASTM D 4084-94, or ASTM D 3246-92*	X	

*or the latest edition.

The owner or operator shall conduct testing for visible emissions while firing fuel oil, using EPA Method 9, for each combustion turbine unit upon that turbine's exceeding 400 hours of operation on fuel oil, and every 150 hours of operation on fuel oil thereafter, in any given federal fiscal year (October 1 through September 30). Such tests shall be performed within 15 days of exceeding such operating hours, to allow for prior notification of the tests. [Rule 62-213.440, F.A.C., applicant agreement with EPA on March 3, 1998; PSD-FL-145, Specific Condition 10.; 0110037-006-AC/PSD-FL-145B, Specific Condition 10.f.; and, Administrative Permit Correction dated November 7, 2000.]

A.25. Annual Compliance Tests. During each federal fiscal year (October 1st to September 30th), each EU shall be tested to demonstrate compliance with the emissions standards for VE, PM and CO. Annual compliance tests for these pollutants shall be performed on each unit that burns oil for 400 hours or more during the federal fiscal year. Unless specifically requested by the Compliance Authority pursuant to Rule 62-297.310(7)(b), F.A.C., periodic opacity tests are not required when firing natural gas. [Rule 62-297.310(7), F.A.C. and PSD-FL-145, Specific Condition 10.f.]

A.26. Compliance Tests Prior To Permit Renewal. The owner or operator shall conduct testing to demonstrate compliance with the emissions standards for VE, PM, CO and VOC emissions prior to renewal of the facility's Title V Air Operation Permit. See Specific Condition **TR.7.** [Rule 62-297.310(7), F.A.C.; 0110037-006-AC/PSD-FL-145B, Specific Condition 2.]

Recordkeeping and Reporting Requirements

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

Report	Reporting Deadline	Related Conditions
Notice of NSPS Subpart A Requirements	As required.	**A.28.**
Notice of Excess Emissions	Quarterly.	**A.29.**
Notice of Malfunctions	Quarterly, by request.	**A.32.**

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

A.28. NSPS Subpart A Requirements. The permittee shall comply with all reporting requirements of 40 CFR 60.7, contained in Appendix NSPS, Subpart A. [Rule 62-213.440, F.A.C.]

A.29. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority: Quarterly excess emission reports, in accordance with 40 CFR 60.7 and 60.334, shall be submitted to the Broward County Environmental Protection and Growth Management Department. [PSD-FL-145,

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Specific Condition 19.]

A.30. Heat Input Compliance Records. To determine compliance with the heat input limitations, the permittee shall maintain daily records of fuel consumption for each turbine and monthly records of heating value for each fuel fired. All records shall be maintained for a minimum of five (5) years after the date of each record and shall be made available to representatives of the Department upon request. [Rule 62-213.440, F.A.C. and PSD-FL-145, Specific Condition 13.]

A.31. Additional Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440, F.A.C.]

A.32. Malfunction Reporting. In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C.]

Other NSPS Requirements

A.33. Subpart A - NSPS General Provisions. These emissions units are also subject to applicable provisions of 40 CFR 60, Subpart A, General Provisions (see Appendix NSPS, Subpart A - General Provisions). [40 CFR 60.7; 60.8; 60.11; 60.12 & 60.13]

Link to 40 CFR 60, Subpart A - General Provisions.

A.34. Subpart GG – NSPS Standards of Performance for Stationary Gas Turbines. These emissions units are also subject to applicable provisions of 40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines (see Appendix NSPS, Subpart GG) [40 CFR 60.330, Applicability]

Link to 40 CFR 60, Subpart GG

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The specific conditions in this section apply to the following emissions unit(s):

EU No.	Brief Description
003	Bank of 12 Combustion Turbines (Nos. 1 to 12)
015	Bank of 12 Combustion Turbines (Nos. 13 to 24)

The emissions units are two banks of twelve simple-cycle gas combustion turbine (CT) units. Each bank of CT units has a net capability of 504 MW. The bank of CT units Nos. 1 to 12 commenced commercial operation in August, 1970; the bank of CT units Nos. 13 to 24 commenced commercial operation in August, 1972. Both emissions units have stacks with a height of 45 feet.

*{Permitting Notes: These emissions units are regulated under Rule 62-210.300, F.A.C., Permits Required. These emissions units are **not** subject to 40 CFR 60, Subpart GG, Standards of Performance for New Stationary Gas Turbines.}*

Essential Potential to Emit (PTE) Parameters

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

Unit No.	MMBtu/hr Heat Input (lower heating value)	Fuel Type
003	702	Natural gas or light distillate fuel oil
015	702	Natural gas or light distillate fuel oil

[Rules 62-4.160(2), 62-204.800, 62-210.200(PTE), and Permit No. AO06-230614.]

B.2. Permitted Capacity. The total fuel firing rate (lower heating value) for each bank of 12 gas turbines shall not exceed 8,424 MMBtu/hr (3-hour average) during fuel oil firing or natural gas firing. Annual heat input (lower heating value) for each bank of 12 gas turbines shall not exceed 7,379 x 10^9 Btu. Compliance with the permitted capacity shall be demonstrated during annual testing and upon request through the use of fuel vendor-supplied heat content data and the fuel usage records required by Specific Condition **B.25.** [AO06-148762 and Rule 62-213.440(1)(b)1.b., 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.3. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]

B.4. Methods of Operation - *Fuels*. The only fuels authorized to be burned in these emissions units are natural gas or light distillate fuel oil. [Rule 62-213.410, F.A.C. and AO06-230614]

B.5. Hours of Operation. These emissions units may operate continuously (8,760 hours/year). [Rule 62-210.200(PTE), F.A.C. and Permit No. AO06-223496, Specific Condition 8]

Emission Limitations and Standards

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

Unless otherwise specified, the averaging times for Specific Conditions **B.6-B.9** are based on the specified averaging time of the applicable test method.

B.6. Visible Emissions. Visible emissions from each turbine shall not be equal to or greater than 20 percent opacity. [Rule 62-296.320(4)(b)1., F.A.C. and AO06-230614, Specific Condition 6.]

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B.7. Volatile Organic Compounds (VOC). VOC emissions from each gas turbine shall not exceed 0.0013 lb/MMBtu when burning No. 2 fuel oil, and 0.0034 lb/MMBtu when burning natural gas. When both fuels are burned at the same time, the allowable emissions shall be prorated. [AC06-179848, Specific Condition 18. and AO06-230614, Specific Condition 4.]

B.8. Volatile Organic Compounds (VOC). Total VOC emissions from the 24 gas turbines when operating at the permitted capacity shall not exceed 57.3 lbs/hr when the units are burning natural gas, and 21.1 lbs/hr when the units are burning oil. When both fuels are burned at the same time, the allowable emissions shall be prorated. [AC06-179848, Specific Condition 19. and AO06-230614, Specific Condition 5.]

B.9. Nitrogen Oxides. Nitrogen oxides emissions from each gas turbine shall not exceed 0.90 lb/MMBtu and 631 lbs/hr when burning No. 2 fuel oil, and 0.50 lb/MMBtu and 351 lbs/hr when burning natural gas. [Rule 62-296.570(4)(b)5., F.A.C.; and AO06-148760, Specific Condition R-2.]

Excess Emissions

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

B.10. Excess Emissions Allowed. Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) 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.]

B.11. Excess Emissions Not Allowed. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

Test Methods and Procedures

B.12. Test Methods. Required tests shall be performed in accordance with the following reference methods.

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
7E	Determination of Nitrogen Oxide Emissions from Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources
18	Measurement of Gaseous Organic Compound Emissions by Gas Chromatography
20	Determination of Nitrogen Oxides, Sulfur Dioxide and Diluent Emissions from Stationary Gas Turbines
25A	Method for Determining Gaseous Organic Concentrations (Flame Ionization)

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rules 62-213.440, 62-296.320, 62-296.570 & 62-297.401, F.A.C.; AC06-179848; and, AO06-230614, Specific Conditions 8 & 9.]

B.13. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

B.14. Annual Compliance Tests. Except as provided in Specific Conditions **B.16.**, **B.18.** and **B.19.**, during each federal fiscal year (October 1st to September 30th), each EU shall be tested to demonstrate compliance with the emissions standards for visible emissions, and nitrogen oxides. However, any combustion turbine that does not operate for more than 400 hours per year shall conduct a visible emissions compliance test once per each

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five-year period, coinciding with the term of its air operation permit. [Rules 62-296.570 and 62-297.310(7), F.A.C.]

B.15. Compliance Tests Prior To Permit Renewal. The owner or operator shall conduct testing to demonstrate compliance with the emissions standards for VE, NO_x and VOC emissions prior to renewal of the facility's Title V Air Operation Permit. See Specific Condition **TR.7.** See Specific Condition **B.19.** [Rule 62-297.310(7), F.A.C. ; AC06-179848, Specific Condition 22.]

B.16. Visible Emissions Testing Required. The owner or operator shall conduct testing for visible emissions, using EPA Method 9, while the combustion turbine is operating at 90-100 percent of its capacity, according to the following schedule.

The owner or operator shall conduct testing for visible emissions while firing fuel oil for each simple-cycle turbine unit upon that turbine's exceeding 400 hours of operation on fuel oil, and every 150 hours of operation on fuel oil thereafter, in any given federal fiscal year (October 1 through September 30). Such tests shall be performed within 15 days of exceeding such operating hours, to allow for prior notification of the tests.

Regardless of the number of hours of operation on fuel oil, at least one compliance test shall be conducted on all twenty-four combustion turbines every five years, coinciding with the term of the operation permit for these turbines. At least one quarter of such tests shall be conducted while burning fuel oil, and at least one quarter of such tests shall be conducted while burning natural gas.
[Rule 62-213.440, F.A.C.; applicant agreement with EPA on March 3, 1998; and AC06-179848, Specific Condition 23.]

{Permitting Note: The above condition was negotiated as part of an EPA objection resolution dated March 10, 1998, to satisfy periodic monitoring concerns for visible emissions while burning fuel oil. ***Annual VE compliance testing while firing gas is not required for these units.*** *The above language replaces the original requirements for testing contained in Specific Condition 23 of permit No. AC06-179848}*

B.17. VE Test Method. The test method for visible emissions shall be EPA Method 9, adopted and incorporated by reference in Rule 62-204.800, F.A.C., and referenced in Chapter 62-297, F.A.C. [Rules 62-204.800, 62-296.320(4)(b)4.a. and 62-297.401, F.A.C.; and AC06-179848, Specific Condition 23.]

B.18. Nitrogen Oxides Test Methods. Provided operation is no more than 320 hours/year/turbine on oil, NO_x emissions for the combustion turbines shall be tested every five (5) years by EPA Method 20 or Method 7E tests as described in 40 CFR 60, Appendix A on any representative unit in each bank of the combustion turbines. Tests shall be conducted both while burning 100% natural gas and 100% light distillate oil. [Rule 62-296.570, F.A.C.; Rule 297.310(7)(a)3., F.A.C.; and AO06-148760, Specific Condition R-3.]

{Permitting Note: The above specific condition was revised based on changes implemented at the proposed permit stage of the prior two Title V permit renewal actions.}

B.19. VOC Test Methods. The VOC emission factors for the combustion turbines shall be confirmed every five years by EPA Method 25A and/or Method 18 tests as described in 40 CFR 60, Appendix A on any representative unit in each bank of the combustion turbines. Tests shall be conducted both while burning 100% natural gas and 100% No. 2 fuel oil. [AC06-179848, Specific Condition 22; AO06-230614, Specific Condition 8.; and, Administrative Permit Correction dated November 7, 2000.]

{Permitting Note: Specific Condition ***B.19.*** *identifies that VOC testing is to be required only once within the five-year permit renewal cycle and results submitted in conjunction with the Title V air operation permit renewal application.}*

Recordkeeping and Reporting Requirements

B.20. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

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Report	Reporting Deadline	Related Conditions
Notice of Malfunctions	Quarterly, by request.	**B.23.**
Notice of Excess Emissions	Quarterly.	**B.25.**

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

B.21. Additional Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [62-213.440, F.A.C.]

B.22. Malfunction Reporting. In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C.]

B.23. Fuel Records. The permittee shall keep records of the type and quantity of fuel, gallons per hour of oil and million cubic feet per hour of natural gas used by each bank of combustion turbines for at least five (5) years. Usage shall be determined on the basis of time of operation versus total fuel consumption for each bank. [AC06-179848, Specific Condition 21.]

B.24. Quarterly Reports. A written quarterly report shall be submitted to the Department of all opacity exceedences of emissions limitations specified in Rules 62-210.700 and 62-296.310, F.A.C. The report shall state the cause, period of noncompliance, and steps taken for corrective action and/or prevention of recurrence. If the opacity level cannot be determined for any reason, the report shall state the cause, duration, and action taken. All recorded data shall be maintained on file for not less than five (5) years and made available to the Department upon request. [AC06-179848, Specific Condition 31 and AO06-230614, Specific Condition 17.]

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The specific conditions in this section apply to the following emissions unit(s):

EU No.	Brief Description
027	Fuel Oil Storage Tank #2 (80,000 bbl, Light Distillate Fuel Oil)
028	Fuel Oil Storage Tank #3 (150,000 bbl, Light Distillate Oil)
029	Fuel Oil Storage Tank #5 (75,000 bbl, Light Distillate Oil)
030	2 Fuel Oil Dump Tanks (2,500 gallon and 110 gallon)

This Subsection describes a variety of fuel storage tanks at the facility as detailed below.

{Permitting Note: These emissions units are regulated under air construction permit AC06-179848. The total VOC emissions from these emissions units are included in the facility-wide VOC cap of 99.92 tons per year.}

Emission Limitations and Standards

C.1. Volatile Organic Compounds. The maximum volatile organic compounds (VOC) emissions and volume of organic liquids handled by the tanks shall not exceed the following:

E.U. ID No.	Organic Liquid	Annual Throughput Limit (Gallons)	VOC Emissions Limit (Tons/Year)
027	Jet A fuel/No. 2 distillate fuel oil*	54,260,842	2.33
028	Jet A fuel	106,079,730	4.46
029	Jet A fuel/No. 2 distillate fuel oil	54,260,842	2.29
030	Jet A/No. 2 fuel oil	300,000	0.003

* If tank E.U. No. 027 is used to supply Jet A fuel to the two banks of combustion turbines, the total Jet A fuel handled by both tanks E.U. 027 and E.U. 028 shall not exceed 106,079,730 gallons per year, and the sum of the VOC emissions from both tanks E.U. 027 and E.U. 028 shall not exceed 6.79 tons per year. [Rule 62-296.320(1)(a), F.A.C.; AC06-179848, Specific Condition 1.; and, AO06-230614, Specific Condition 1.]

Recordkeeping and Reporting Requirements

C.2. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Conditions
Annual Operating Report	Annual.	**C.3.**

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

C.3. Annual Operating Report of VOC Emissions. The VOC emissions in tons per year, by specific tank, for all the units identified in Specific Condition **C.1.,** shall be calculated for Annual Operating Report for Air Pollutant Emitting Facility purposes by the procedures described in AP-42, Section 4.3, Storage of Organic Liquids. Actual throughput and representative meteorological data shall be used for these calculations. Also see Specific Condition **FW.11.** in the Facility-wide Conditions Section. [Rule 62-210.370(3), F.A.C.; AC06-179848, Specific Condition 3.; and, AO06-230614, Specific Condition 3.]

C.4. Fuel Oil Records. The permittee shall keep records of the following for at least five (5) years:
a. The amount of light distillate fuel oil obtained for the facility.
b. The amount of No. 2 fuel oil obtained for the facility.
c. The throughput, by specific tank, for all the units identified in Specific Condition **C.1.**

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[AC06-179848, Specific Condition 2. and AO06-230614, Specific Condition 2.]

C.5. Additional Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440, F.A.C.]

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

EU No.	Brief Description
039	Site Solvent Usage

This emissions unit includes the use of solvents for equipment maintenance purposes at the facility.

Emission Limitations and Standards

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

D.1. Volatile Organic Compounds (VOC). Not more than 250 gallons/year, or 0.893 tons/year, of VOC loss of solvent during any 12-month period shall be allowed for maintenance of this facility. [AC06-179848, Specific Condition 24.]

Monitoring of Operations

D.2. Solvent Use. The use of solvents for maintenance purposes shall be tracked and controlled during the calendar year. The VOC emissions from solvents shall be calculated by the following method: The solvent volume loss shall be equal to the total solvent purchased/in stock minus the solvent volume reclaimed/disposed of offsite. The solvent volume loss shall then be multiplied by the emission factor (mass VOC/unit of the solvent) to derive at a tons per year value. The total solvent tons per year emission value shall be added to all other VOC sources at the facility to ensure compliance with Specific Condition **FW.11.** in Section II., Facility-wide Conditions, of this permit. Specific Condition **FW.11.** limits facility-wide VOC emissions to 99.92 tons per year. Note that the combined-cycle units, Unit 4 and Unit 5, are excluded from Specific Condition **FW.11.** [AC06-179848, Specific Condition 24. and AO06-230614, Specific Condition 10.]

Recordkeeping and Reporting Requirements

D.3. Records of Solvent Use. The permittee shall keep records of the type and quantity of solvents, in gallons per year, used during maintenance throughout this facility for a minimum of five (5) years. [AC06-179848, Specific Condition 25. and AO06-230614, Specific Condition 11.]

D.4. Additional Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440, F.A.C.]

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Subsection E. Emissions Unit 044

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

E.U. ID No.	Brief Description
044	Emergency Diesel-Fired Fire Pump Engine

The unit is one diesel fire pump, manufactured by Caterpillar, with serial number 6TB08902, Model 3406B DI, 376 HP, in service 1986, with 6 cylinders and 14.6 liters total displacement.

This emissions unit is a diesel-fired reciprocating internal combustion engine (RICE) used to drive an emergency fire pump. The emergency fire pump engine uses ultra low sulfur fuel oil only.

The following table provides important details for the above emission unit:

Engine Brake HP	Date of Construction	Manufacturer	Model Number	Displacement liters/cylinder (l/c)	Serial Number
376 HP	1986	Caterpillar	3406B	2.43	6TB08902

{Permitting Note: This compression ignition (CI) engine used to drive an emergency fire pump is regulated under 40 CFR 63, Subpart ZZZZ, NESHAP for Stationary RICE adopted in Rule 62.204.800(11)(b), F.A.C. Because this engine qualifies as an existing stationary RICE less than 500 HP operating at a major source of HAP, it is not subject to regulation under NSPS 40 CFR 60, Subpart IIII. }

Essential Potential to Emit (PTE) Parameters

E.1. Hours of Operation.

a. *Emergency Situations*. There is no time limit on the use of this fire pump engine in emergency situations. [40 CFR 63.6640(f)(1)(i)]

b. *Maintenance and Readiness Testing*. This engine is authorized to operate for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Operation for maintenance checks and readiness testing is limited to 100 hours per year. [40 CFR 63.6640(f)(1)(ii)]

c. *Non-emergency Situations*. This engine is authorized to operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. [40 CFR 63.6640(f)(1)]

d. *Engine Startup*. During periods of startup the owner or operator must minimize the engine's time spent at idle and minimize the engine's startup time to a period needed for the appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63.6625(h)]

Emission Limitations and Operating Requirements

E.2. Work or Management Practice Standards.

a. *Oil*. Change oil and filter every 500 hours of operation or annually, whichever comes first, or use an oil analysis program to extend this interval, as provided in paragraph e., below. [40 CFR 63 Table 2c(1)(a) and footnote 2]

b. *Air Cleaner*. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first. [40 CFR 63 Table 2c(1)(b)]

c. *Hoses and Belts*. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 63 Table 2c(1)(c)]

d. *Operation and Maintenance*. Operate and maintain the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions or develop and follow your own maintenance

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plan which must provide, to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e) & 40 CFR 63.6640(a)]

e. *Oil Analysis*. The owner or operator has the option of using oil analysis to extend the oil change requirement. The oil analysis must be performed at the same frequency specified for changing the oil in paragraph a., of this condition. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63.6625(i)]

[40 CFR 63.6602]

Monitoring of Operations

E.3. Hour Meter. The owner or operator must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]

Compliance

E.4. Continuous Compliance. Each unit shall be in compliance with the operating standards in this section at all times. [40 CFR 63.6605(a)]

E.5. Operation and Maintenance of Equipment. At all times the owner or operator must operate and maintain, any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the compliance authority which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.6605(b)]

Recordkeeping Requirements

E.6. Compliance Records. The owner or operator must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The records must document how many hours are spent for emergency operation; including what classified the operation as emergency and how many hours are spent for non-emergency operation. [40 CFR 63.6655(f)]

Reporting Requirements

E.7. Emergency Situation. If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in specific condition **E.3.** of this section, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the work practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable. [40 CFR 63, Subpart ZZZZ. Table 2c, footnote 1]

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Other Federal Requirements

E.8. 40 CFR 63, Subpart A. In addition to the above requirements, this emissions unit shall also comply with the applicable requirements listed below, which are contained in the attached Appendix NESHAP A: 40 CFR 63, Subpart A - General Provisions.

General Provisions Citation	Subject of Citation
§63.1	General applicability of the General Provisions
§63.2	Definitions. Additional terms defined in §63.6675.
§63.3	Units and abbreviations
§63.4	Prohibited activities and circumvention
§63.5	Construction and reconstruction
§63.6(a)	Applicability
§63.6(b)(1)–(4)	Compliance dates for new and reconstructed sources
§63.6(j)	Presidential compliance exemption
§63.7(a)(3)	CAA section 114 authority
§63.7(e)(4)	Administrator may require other testing under section 114 of the CAA
§63.9(i)	Adjustment of submittal deadlines
§63.9(j)	Change in previous information
§63.10(a)	Administrative provisions for recordkeeping/reporting
§63.10(b)(1)	Record retention
§63.10(b)(2)(vi)–(xi)	Records
§63.10(b)(2)(xii)	Records when under waiver
§63.10(b)(2)(xiv)	Records of supporting documentation
§63.10(b)(3)	Records of applicability determination
§63.10(d)(1)	General reporting requirements
§63.10(d)(4)	Progress reports
§63.10(f)	Waiver for recordkeeping/reporting
§63.12	State authority and delegations
§63.13	Addresses
§63.14	Incorporation by reference
§63.15	Availability of information

[40 CFR 63.6665]

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

E.U. ID No.	Brief Description
042	Auxiliary Boiler used to provide steam to the turbine shaft seals during a cold start of the plant. Maximum heat input rate is 15.5 MMBtu/hr. It is fired with propane and was previously unregulated. There is no air construction permit for the unit. It was installed under a categorical exemption pursuant to Rule 62-210.300(3)(a)2., F.A.C.

{Permitting Note: This emissions unit is subject to 40 CFR Part 63 General Provisions, as applicable, and 40 CFR Part 63 Subpart DDDDD "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters; Final Rule" that was published in the Federal Register on January 31, 2013.}

Essential Potential to Emit (PTE) Parameters

F.1. Hours of Operation. This Auxiliary Boiler qualifies as a "Unit designed to burn gas 1 subcategory" since it is designed to burn propane (i.e., gas 1 fuel) as its primary, and only, fuel. There are no limitations on hours of operation. [40 CFR 63.7499]

F.2. Nameplate Capacity. The Auxiliary Boiler is further classified as an "existing" boiler under 40 CFR Part 63 Subpart DDDDD with a startup date prior to the June 4, 2010, date of rule proposal in the Federal Register that ultimately sets the dichotomy for Part 63 applicable sources ("existing" vs. "new"). The nameplate indicates a designed heat input of 15.5 MMBtu/hr. [40 CFR 63.7490]

Compliance

F.3. Emissions and Work Practice Standards. Per the boiler classification, there are no applicable emission standards under Subpart DDDDD. The boiler is subject to Table 3 to Subpart DDDDD Work Practice Standards requiring an annual tune-up of the boiler as well as a one-time energy assessment. Please note, however, that should the boiler have a continuous oxygen trim system, it is subject to the tune-up requirement every five years instead of annually. [40 CFR 63.7500; Table 3 to Subpart DDDDD of Part 63]

F.4. Start Up and Shut Down. During Startup and Shutdown (SUSD), a work practice standard must be met by following the manufacturer's recommended procedures to minimize SUSD periods in lieu of numeric emission limits. [40 CFR 63.7500; Table 3 to Subpart DDDDD of Part 63]

F.5. Compliance Date. As an "existing" source under Subpart DDDDD, the facility has three (3) years from the date of promulgation in the Federal Register to comply with the aforementioned applicable requirements. Final compliance date for the boiler is January 31, 2016, for the initial tune-up of the boiler and one-time energy assessment. [40 CFR 63.7495]

F.6. 40 CFR 63, Subpart A. In addition to the above requirements, this emissions unit shall also comply with the applicable requirements listed below, which are contained in the attached Appendix NESHAP A: 40 CFR 63, Subpart A - General Provisions.

General Provisions Citation	Subject of Citation
§63.1	General applicability of the General Provisions
§63.2	Definitions. Additional terms defined in §63.6675.
§63.3	Units and abbreviations
§63.4	Prohibited activities and circumvention
§63.5	Construction and reconstruction
§63.6(a)	Applicability

Replaced Draft/Proposed

General Provisions Citation	Subject of Citation
§63.6(b)(1)–(4)	Compliance dates for new and reconstructed sources
§63.6(j)	Presidential compliance exemption
§63.7(a)(3)	CAA section 114 authority
§63.7(e)(4)	Administrator may require other testing under section 114 of the CAA
§63.9(i)	Adjustment of submittal deadlines
§63.9(j)	Change in previous information
§63.10(a)	Administrative provisions for recordkeeping/reporting
§63.10(b)(1)	Record retention
§63.10(b)(2)(vi)–(xi)	Records
§63.10(b)(2)(xii)	Records when under waiver
§63.10(b)(2)(xiv)	Records of supporting documentation
§63.10(b)(3)	Records of applicability determination
§63.10(d)(1)	General reporting requirements
§63.10(d)(4)	Progress reports
§63.10(f)	Waiver for recordkeeping/reporting
§63.12	State authority and delegations
§63.13	Addresses
§63.14	Incorporation by reference
§63.15	Availability of information

[40 CFR 63.6665]

Replaced Draft/Proposed

Operated by: Florida Power and Light Company
ORIS Code: 0613

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

E.U. ID No.	EPA Unit ID#	Brief Description
035	4GT1	Combined-Cycle Combustion Turbine with Heat Recovery Steam Generator (CT 4A)
036	4GT2	Combined-Cycle Combustion Turbine with Heat Recovery Steam Generator (CT 4B)
037	5GT1	Combined-Cycle Combustion Turbine with Heat Recovery Steam Generator (CT 5A)
038	5GT2	Combined-Cycle Combustion Turbine with Heat Recovery Steam Generator (CT 5B)

A.1. The Phase II Acid Rain Part application submitted for this facility, as approved by the Department, is a part of this permit. The owners and operators of these Phase II acid rain units must comply with the standard requirements and special provisions set forth in the application listed below:
a. DEP Form No. 62-210.900(1)(a), signed 02/27/13.
[Chapter 62-213, F.A.C. and Rule 62-214.320, F.A.C.]

A.2. Sulfur Dioxide (SO_2) Emission Allowances. Emissions from sources subject to the Federal Acid Rain Program (Title IV) shall not exceed any allowances that the source lawfully holds under the Federal Acid Rain Program. Allowances shall not be used to demonstrate compliance with a non-Title IV applicable requirement of the Act.
a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the Federal Acid Rain Program, provided that such increases do not require a permit revision pursuant to Rule 62-213.400(3), F.A.C.
b. No limit shall be placed on the number of allowances held by the source under the Federal Acid Rain Program.
c. Allowances shall be accounted for under the Federal Acid Rain Program.
[Rule 62-213.440(1)(c)1., 2. & 3., F.A.C.]

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

Replaced Draft/Proposed

Acid Rain Part Application

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

This submission is: ☐ New ☐ Revised X Renewal

STEP 1

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

Plant name ; LAUDERDALE	State Florida	000613 ORIS/Plant Code

STEP 2
Enter the unit ID# for every Acid Rain unit at the Acid Rain source in column "a."

If unit a SO_2 Opt-in unit, enter "yes" in column "b".

For new units or SO_2 Opt-in units, enter the requested information in columns "d" and "e."

a	b	c	d	e
Unit ID#	SO_2 Opt-in Unit? (Yes or No)	Unit will hold allowances in accordance with 40 CFR 72.9(c)(1)	New or SO_2 Opt-in Units Commence Operation Date	New or SO_2 Opt-in Units Monitor Certification Deadline
4GT1	NO	Yes		
4GT2	NO	Yes		
5GT1	NO	Yes		
5GT2	NO	Yes		

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

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Plant Name (from STEP 1) LAUDERDALE

STEP 3

Read the standard requirements.

Acid Rain Part Requirements.

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

Monitoring Requirements.

(1) The owners and operators and, to the extent applicable, designated representative of each Acid Rain source and each Acid Rain unit at the source shall comply with the monitoring requirements as provided in 40 CFR Part 75, and Rule 62-214.420, F.A.C.
(2) The emissions measurements recorded and reported in accordance with 40 CFR Part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
(3) The requirements of 40 CFR Part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.
(4) For applications including a SO_2 Opt-in unit, a monitoring plan for each SO_2 Opt-in unit must be submitted with this application pursuant to 40 CFR 74.14(a). For renewal applications for SO_2 Opt-in units include an updated monitoring plan if applicable under 40 CFR 75.53(b).

Sulfur Dioxide Requirements.

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

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

Excess Emissions Requirements.

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

Recordkeeping and Reporting Requirements.

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

Plant Name (from STEP 1) LAUDERDALE

STEP 3, Continued.

Recordkeeping and Reporting Requirements (cont)

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

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

Liability.

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

Effect on Other Authorities.

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

STEP 4
For SO_2 Opt-in units only.

In column "f" enter the unit ID# for every SO_2 Opt-in unit identified in column "a" of STEP 2.

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

In column "h" enter the hours.

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

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Effective: 3/16/08

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Plant Name (from STEP 1) LAUDERDALE

STEP 5

For SO_2 Opt-in units only.
(Not required for SO_2 Opt-in renewal applications.)

In column "i" enter the unit ID# for every SO_2 Opt-in unit identified in column "a" (and in column "f").

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

i	j	k	l	m	n
Unit ID#	Baseline or Alternative Baseline under 40 CFR 74.20 (mmBtu)	Actual SO_2 Emissions Rate under 40 CFR 74.22 (lbs/mmBtu)	Allowable 1985 SO_2 Emissions Rate under 40 CFR 74.23 (lbs/mmBtu)	Current Allowable SO_2 Emissions Rate under 40 CFR 74.24 (lbs/mmBtu)	Current Promulgated SO_2 Emissions Rate under 40 CFR 74.25 (lbs/mmBtu)

STEP 6

For SO_2 Opt-in units only.

Attach additional requirements, certify and sign.

A. If the combustion source seeks to qualify for a transfer of allowances from the replacement of thermal energy, a thermal energy plan as provided in 40 CFR 74.47 for combustion sources must be attached.
B. A statement whether the combustion unit was previously an affected unit under 40 CFR 74.
C. A statement that the combustion unit is not an affected unit under 40 CFR 72.6 and does not have an exemption under 40 CFR 72.7, 72.8, or 72.14.
D. Attach a complete compliance plan for SO_2 under 40 CFR 72.40.
E. The designated representative of the combustion unit shall submit a monitoring plan in accordance with 40 CFR 74.61. For renewal application, submit an updated monitoring plan if applicable under 40 CFR 75.53(b).
F. The following statement must be signed by the designated representative or alternate designated representative of the combustion source: "I certify that the data submitted under 40 CFR Part 74, Subpart C, reflects actual operations of the combustion source and has not been adjusted in any way."

Signature | Date

STEP 7

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

Certification (for designated representative or alternate designated representative only)

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

Name Christian Kiernan | Title PGD Technical Services General/Designated Representative

Owner Company Name Florida Power & Light

Phone 561-691-2781 | E-mail address: christian.kiernan@fpl.com

Signature | Date 2/27/2013

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

4

Clean Air Interstate Rule (CAIR).

Operated by: Florida Power and Light Company
Plant Name: Lauderdale Plant
ORIS Code: 0613

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

E.U. ID No.	EPA Unit ID#	Brief Description
035	4GT1	Combined-Cycle Combustion Turbine with Heat Recovery Steam Generator (CT 4A)
036	4GT2	Combined-Cycle Combustion Turbine with Heat Recovery Steam Generator (CT 4B)
037	5GT1	Combined-Cycle Combustion Turbine with Heat Recovery Steam Generator (CT 5A)
038	5GT2	Combined-Cycle Combustion Turbine with Heat Recovery Steam Generator (CT 5B)

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

Replaced Draft/Proposed

Clean Air Interstate Rule (CAIR) Part

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

This submission is: ☐ New ☐ Revised X Renewal

STEP 1

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

Plant Name: LAUDERDALE	State: Florida FL	ORIS or EIA Plant Code: 000613

STEP 2

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

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

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

a	b	c	d	e	f
Unit ID#	Unit will hold nitrogen oxides (NO_X) allowances in accordance with 40 CFR 96.106(c)(1)	Unit will hold sulfur dioxide (SO_2) allowances in accordance with 40 CFR 96.206(c)(1)	Unit will hold NO_X Ozone Season allowances in accordance with 40 CFR 96.306(c)(1)	New Units Expected Commence Commercial Operation Date	New Units Expected Monitor Certification Deadline
4GT1	YES	YES	YES		
4GT2	YES	YES	YES		
5GT1	YES	YES	YES		
5GT2	YES	YES	YES		

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

1

Plant Name (from STEP 1) LAUDERDALE

STEP 3

Read the standard requirements.

CAIR NO_X ANNUAL TRADING PROGRAM

CAIR Part Requirements.

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

Monitoring, Reporting, and Recordkeeping Requirements.

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

NO_X Emission Requirements.

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

Excess Emissions Requirements.

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

Recordkeeping and Reporting Requirements.

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

Plant Name (from STEP 1)	LAUDERDALE

STEP 3, Continued

Liability.

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

Effect on Other Authorities.

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

CAIR SO_2 TRADING PROGRAM

CAIR Part Requirements.

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

Monitoring, Reporting, and Recordkeeping Requirements.

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

SO_2 Emission Requirements.

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

Excess Emissions Requirements.

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

Plant Name (from STEP 1)	LAUDERDALE

STEP 3, Continued

Recordkeeping and Reporting Requirements.

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

Liability.

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

Effect on Other Authorities.

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

CAIR NO_x OZONE SEASON TRADING PROGRAM

CAIR Part Requirements.

(1) The CAIR designated representative of each CAIR NO_X Ozone Season source and each CAIR NO_X Ozone Season unit at the source shall:
(i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.322 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and
(ii) [Reserved];
(2) The owners and operators of each CAIR NO_X Ozone Season source required to have a Title V operating permit or air construction permit, and each CAIR NO_X Ozone Season unit required to have a Title V operating permit or air construction permit at the source shall have a CAIR Part included in the Title V operating permit or air construction permit issued by the DEP under 40 CFR Part 96, Subpart CCCC, for the source and operate the source and the unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

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

NO_x Ozone Season Emission Requirements.

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

(6) A CAIR NO_X Ozone Season allowance does not constitute a property right.
(7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart EEEE, FFFF or GGGG, every allocation, transfer, or deduction of a CAIR NO_X Ozone Season allowance to or from a CAIR NO_X Ozone Season unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR NO_X Ozone Season unit.

Plant Name (from STEP 1)	LAUDERDALE

STEP 3, Continued

Excess Emissions Requirements.

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

Recordkeeping and Reporting Requirements.

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

Liability.

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

Effect on Other Authorities.

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

STEP 4

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

Certification (for designated representative or alternate designated representative only)

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

Name CHRISTIAN KIERNAN	Title PGD GENERAL MANAGER/DESIGNATED REPRESENTATIVE
Company Owner Name FLORIDA POWER & LIGHT	
Phone 561-691-2781	E-mail Address CHRISTIAN KIERNAN@FPL.COM
Signature	Date 2/27/2013

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

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SECTION VI. APPENDICES.

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

Appendix A, Glossary.
Appendix CFMS, Customized Fuel Monitoring Schedule.
Appendix I, List of Insignificant Emissions Units and/or Activities.
Appendix NESHAP, Subpart A – General Provisions.
Appendix NSPS, Subpart A – General Provisions.
Appendix NSPS, Subpart GG – Standards of Performance for Stationary Gas Turbines.
Appendix RR, Facility-wide Reporting Requirements.
Appendix TR, Facility-wide Testing Requirements.
Appendix TV, Title V General Conditions.
Appendix U, List of Unregulated Emissions Units and/or Activities.

Replaced Draft/Proposed